Rev. 6, 2/1/06

The "Discipline" indicator represents the engineering discipline most commonly associated with the ID. This is included to aid ID selection, particularly in Attachment 2 which is sorted by discipline first; however, this discipline categorization does not preclude using the acronym for disciplines other than that indicated.

ID	Description <sorted by<="" th=""><th>Pof*</th><th>Discipline*</th></sorted>	Pof*	Discipline*
ACTR	Actuator	ASME	Mech
AFD	Actuator, fire device	LANL	Fire Prot
	After cooler	LANL	Mech
ACL AGT		803.1	Mech
	Agitator		
ACR	Air conditioner, refrigerant	LANL	Mech
ASE	Air sampler, exhaust stack	LANL	Mech
AES	Air-ejector, steam	LANL	Mech
RLT	Alarm, access, red-light	LANL	I&C
AA	Alarm, analyzer	5.1	I&C
ALC	Alarm, carbon monoxide	LANL	I&C
AGA	Alarm, combustible gas	LANL	I&C
CA@	Alarm, conductivity	5.1mod	I&C
IA	Alarm, current	5.1	I&C
PDA	Alarm, differential pressure	5.1	I&C
FA	Alarm, flow	5.1	I&C
LA	Alarm, level	5.1	I&C
MA	Alarm, moisture	5.1	I&C
OIA	Alarm, oxygen, indicating	5.1	I&C
JA	Alarm, power	5.1	I&C
PA	Alarm, pressure	5.1	I&C
RA	Alarm, radiation	5.1	I&C
XA	Alarm, special	5.1	I&C
SA	Alarm, speed	5.1	I&C
TA	Alarm, temperature	5.1	I&C
VA	Alarm, vibration	5.1	I&C
EA	Alarm, voltage	5.1	I&C
ZA	Alarm, zone or position	5.1	I&C
O	Analyzer, oxygen	5.1	I&C
AFP	Argus Field Panel	LANL	Security
ATT	Attenuator – sound, etc.	803.1	Mech
BFP	Backflow preventer	803.1	Mech
BAL	Balance	ASME	M&TE
BB	Battery, banked	LANL	Elec
BTRY	Battery or battery box	803.1	Elec
FCPB	Battery, fire control panel	LANL	Fire Prot
BL	Blower	LANL	Mech
BV	Blower, vacuum	LANL	Mech
BHW	Boiler, hot water	LANL	Mech
BS	Boiler, steam	LANL	Mech
BWS	Boiler, water supply	LANL	Mech
NGN	Bottle, nitrogen	LANL	Mech
DBX	Box, drop	LANL	Mech
GB	Box, glove	LANL	Mech
PBX	Box, pull	803.1	Fire Prot
BLDG	Buildings; transportables	803.1	C/S/Arch
DB	Bus duct (aboveground)	LANL	Elec
SSBU	Bus, substation (HV)	803.1	Elec
CAP	Capacitor, non-pad mounted	803	Elec
CPMD	Capacitor, pad mounted	LANL	Elec
CPU	Central processing unit	803.1	I&C
J. J	(computer)		
СВ	Charger, battery	LANL	Elec
CWA	Chiller, water, absorption	LANL	Mech

ID	Description <sorted by<="" th=""><th>Ref*</th><th>Discipline*</th></sorted>	Ref*	Discipline*
CWE	Chiller, water, evaporative	LANL	Mech
CWR	Chiller, water, refrigerant	LANL	Mech
52	Circuit Breaker, AC	803.1	El Utility Dwgs
CBA	Circuit breaker, air (MV or HV)		Elec
7	Circuit Breaker, Anode	803.1	El Utility Dwgs
72	Circuit Breaker, DC	803.1	El Utility Dwgs
CBE	Circuit breaker, enclosed	LANL	Elec
CDL	(NEMA AB 1 type)	LAINL	LIEC
22	Circuit Breaker, Equalizer	803.1	El Utility Dwgs
<u> 41</u>	Circuit Breaker, Field	803.1	El Utility Dwgs
CBG	Circuit breaker, gas (MV or	LANL	Elec
OBO	HV)	LAINE	Lico
LVPCB	Circuit breaker, low voltage	1015	Elec
CBO	Circuit breaker, oil (MV or HV)	LANL	Elec
42	Circuit Breaker, Running	803.1	El Utility Dwgs
6	Circuit Breaker, Starting	803.1	El Utility Dwgs
CBV	Circuit breaker, vacuum (MV	LANL	Elec
ODV	or HV)	L/ \(\dagger{\pi}\)	Lico
CEO	Circuit, electric, overhead	LANL	Elec
CEU	Circuit, electric, underground	LANL	Elec
CO	Cleanout	ASPE	Mech
CCL	Coil, cooling	803.1	Mech
CCE	Coil, cooling, evaporative	LANL	Mech
CCG	Coil, cooling, glycol	LANL	Mech
HCL	Coil, heating	803.1	Mech
CD	Collector, dust	LANL	Shop
CW	Column, water	LANL	Mech
CA	Compressor, air	LANL	Mech
CR	Compressor, refrigerant	LANL	Mech
CRU	Condensate recovery unit	LANL	Mech
CRA	Condenser, refrigerant, air-	LANL	Mech
CKA	cooled	LAINL	IVIECII
CRE	Condenser, refrigerant,	LANL	Mech
CILL	evaporative	LAINL	IVIECII
CTE	Condenser, turbine exhaust	LANL	Mech
CNTR	Contactor	803.1	Elec
93	Contactor, Field Changing	803.1	El Utility Dwgs
29	Contactor, Isolating	803.1	El Utility Dwgs
73	Contactor, Load-Resistor	803.1	El Utility Dwgs
4	Contactor, Master	803.1	El Utility Dwgs
1 19	Contactor, Starting-To-	803.1	El Utility Dwgs
15	Running Transition	000.1	Li Otility Dwgs
69	Control Device, Permissive	803.1	El Utility Dwgs
ACO	Control operator, analyzer	803.1	I&C
CCO	Control operator, conductivity	803.1	I&C
PDCO	Control operator, differential	803.1	I&C
1 000	pressure	000.1	ido
FCO	Control operator, flow	803.1	I&C
HCO	Control operator, hand	803.1	I&C
LCO	Control operator, level	803.1	I&C
PCO	Control operator, pressure	803.1	I&C
XCO	Control operator, special	803.1	I&C
SCO	Control operator, speed	803.1	I&C
TCO	Control operator, temperature	803.1	I&C
FCP	Control panel, fire	170	Fire Prot
HCP	Control panel, halon	170	Fire Prot
AIK	Control station, indicating, analyzer	5.1	I&C
BIK	Control station, indicating,	5.1	I&C
עוט	burner	J. 1	IαC
CIK	Control station, indicating,	5.1	I&C
	portion station, indicating,	J. 1	المار
O.I. C	conductivity		

ID	Description <sorted by<="" th=""><th>Ref*</th><th>Discipline*</th></sorted>	Ref*	Discipline*
PDIK	Control station, indicating,	5.1	I&C
	differential pressure		
FIK	Control station, indicating, flow	5.1	I&C
MIK	Control station, indicating, moisture	5.1	I&C
JIK	Control station, indicating,	5.1	I&C
XIK	power Control station, indicating,	5.1	I&C
	special		
SIK	Control station, indicating, speed	5.1	I&C
TIK	Control station, indicating,	5.1	I&C
EIK	temperature Control station, indicating,	5.1	I&C
ADIC	voltage	E 4	10.0
ARK	Control station, recording, analyzer	5.1	I&C
CRK	Control station, recording,	5.1	I&C
PDRK	conductivity Control station, recording,	5.1	I&C
EDIK	differential pressure	- 4	10.0
FRK LRK	Control station, recording, flow Control station, recording,	5.1 5.1	I&C I&C
LIXIX	level	5.1	lac
XRK	Control station, recording, special	5.1	I&C
TRK	Control station, recording,	5.1	I&C
A C	temperature	F 4	100
AC BC	Control, analyzer	5.1 5.1	I&C I&C
CC	Control, burner Control, conductivity	5.1	I&C
IC	Control, current	5.1	I&C
ZDC	Control, deviation	5.1	I&C
PDC	Control, differential pressure	5.1	I&C
TDC	Control, differential	5.1	I&C
1.50	temperature	0.1	140
FC@	Control, flow	5.1mod	I&C
FFC	Control, flow, ratio	5.1	I&C
WDC	Control, force differential	5.1	I&C
HC	Control, hand	5.1	I&C
AIC	Control, indicating, analyzer	5.1	I&C
BIC	Control, indicating, burner	5.1	I&C
CIC	Control, indicating,	5.1	I&C
0.0	conductivity		
IIC	Control, indicating, current	5.1	I&C
ZDIC	Control, indicating, deviation	5.1	I&C
PDIC	Control, indicating, differential pressure	5.1	I&C
TDIC	Control, indicating, differential	5.1	I&C
	temperature		
FIC	Control, indicating, flow	5.1	I&C
FFIC	Control, indicating, flow ratio	5.1	I&C
FQIC	Control, indicating, flow, quantity	5.1	I&C
WDIC	Control, indicating, force differential	5.1	I&C
HIC	Control, indicating, hand	5.1	I&C
LIC	Control, indicating, hand	5.1	I&C
MIC	Control, indicating, never	5.1	I&C
JIC	Control, indicating, moisture Control, indicating, power	5.1	I&C
YIC	Control, indicating, presence	5.1	I&C
	or state		

ID	Description <sorted by<="" th=""><th>Ref*</th><th>Discipline*</th></sorted>	Ref*	Discipline*
PIC	Control, indicating, pressure	5.1	I&C
QIC	Control, indicating, quantity	5.1	I&C
RIC	Control, indicating, radiation	5.1	I&C
XIC	Control, indicating, special	5.1	I&C
SIC	Control, indicating, speed	5.1	I&C
TIC	Control, indicating,	5.1	I&C
	temperature	0.1	140
KIC	Control, indicating, time	5.1	I&C
EIC	Control, indicating, voltage	5.1	I&C
WIC	Control, indicating, weight or	5.1	I&C
	force	0.1	140
ZIC	Control, indicating, zone or	5.1	I&C
	position		
LC	Control, level	5.1	I&C
MC@	Control, moisture	5.1mod	I&C
JC	Control, power	5.1	I&C
YC	Control, presence or state	5.1	I&C
PC@	Control, pressure	5.1mod	I&C
RC	Control, radiation	5.1	I&C
ARC	Control, recording, analyzer	5.1	I&C
BRC	Control, recording, burner	5.1	I&C
CRC	Control, recording,	5.1	I&C
	conductivity		
IRC	Control, recording, current	5.1	I&C
ZDRC	Control, recording, deviation	5.1	I&C
PDRC	Control, recording, differential	5.1	I&C
. 5	pressure	0.1	140
TDRC	Control, recording, differential	5.1	I&C
	temperature		
FRC	Control, recording, flow	5.1	I&C
FQRC	Control, recording, flow,	5.1	I&C
	quantity		
FFRC	Control, recording, flow, ratio	5.1	I&C
WDRC	Control, recording, force	5.1	I&C
	differential		
LRC	Control, recording, level	5.1	I&C
MRC	Control, recording, moisture	5.1	I&C
ZRC	Control, recording, position	5.1	I&C
JRC	Control, recording, power	5.1	I&C
PRC	Control, recording, pressure	5.1	I&C
QRC	Control, recording, quantity	5.1	I&C
RRC	Control, recording, radiation	5.1	I&C
XRC	Control, recording, special	5.1	I&C
SRC	Control, recording, speed	5.1	I&C
TRC@	Control, recording,	5.1mod	I&C
	temperature		
KRC	Control, recording, time	5.1	I&C
ERC	Control, recording, voltage	5.1	I&C
WRC	Control, recording, weight or	5.1	I&C
	force		
XC	Control, special	5.1	I&C
SC	Control, speed	5.1	I&C
TC@	Control, temperature	5.1mod	I&C
KC	Control, time	5.1	I&C
EC	Control, voltage	5.1	I&C
WC	Control, weight or force	5.1	I&C
ZC	Control, zone or position	5.1	I&C
CP	Controller, pneumatic	LANL	I&C
CPF	Controller, pneumatic, flow	LANL	I&C
PLC	Controller, programmable logic	ASME	I&C
CVVR	Conveyor	803.1	Mech
CVVIX		LANL	

CAW Cooler, air, water LANL Mech WCR Cooler, water ASME Mech CTO Crane, bridge LANL C/S/Arch CTG Crane, gantry LANL C/S/Arch CTG Crane, monorail LANL C/S/Arch CS Crane, shop LANL C/S/Arch CS Crane, shop LANL C/S/Arch CS Crane, shop LANL Shop DMP Damper 803.1 Mech DF Damper, fire LANL Fire Prot DS Damper, smoke LANL Mech DSH Desuperheater LANL Mech DSH Desuperheater LANL Mech DSH Desuperheater LANL Fire Prot BS Devicer, radiation 5.1 I&C SMD Detector, radiation 5.1 I&C SMD Detector, smoke LANL Fire Prot DSAD Device, Accelerating 803.1 El Utility Dwgs BSMD Detector, Protective 803.1 El Utility Dwgs Device, Baring Protective 803.1 El Utility Dwgs Device, Brush-Operating or Silp-Ring Short Circuiting 803.1 El Utility Dwgs B Device, Decelerating 803.1 El Utility Dwgs B Device, Master Sequence 803.1 El Utility Dwgs B Device, Master Sequence 803.1 El Utility Dwgs Disconnecting 803.1 El Utility Dwgs B Device, Master Sequence 803.1 El Utility Dwgs Disconnecting 803.1 El Utility Dwgs Device, Reversing 803.1 El Utility Dwgs Device, Reversing 803.1 El Utility Dwgs Device, Spender Frequency 803.1 El Utility Dwgs Devic	ID	Description <sorted by<="" th=""><th>Ref*</th><th>Discipline*</th></sorted>	Ref*	Discipline*
WCR Cooler, water ASME Mech CTO Crane, bridge LANL C/S/Arch CTG Crane, aparty LANL C/S/Arch CJ Crane, jib LANL C/S/Arch CM Crane, monorail LANL C/S/Arch CS Crane, shop LANL C/S/Arch CRANE Crane, tires/motor LANL Shop DMP Damper Bo3.1 Mech DF Damper, fire LANL Fire Prot DS Damper, smoke LANL Fire Prot DS Desuperheater LANL Fire Prot DS Detector, Flame Bo3.1 El Utility Dwgs Detector, readiation 5.1 I&C SMD Detector, smoke LANL Fire Prot DS Detector, smoke LANL Fire Prot DS Detector, smoke LANL Fire Prot DS Device, Accelerating Bo3.1 El Utility Dwgs DS Device, Bearing Protective Bo3.1 El Utility Dwgs DS Device, Bearing Protective Bo3.1 El Utility Dwgs DS Device, Bearing Protective Bo3.1 El Utility Dwgs Disconnecting Device, Control Power Bo3.1 El Utility Dwgs Disconnecting Device, Manual Trans/Select Bo3.1 El Utility Dwgs Device, Manual Trans/Select Bo3.1 El Utility Dwgs Device, Notching or Jogging Bo3.1 El Utility Dwgs Device, Notching or Jogging Bo3.1 El Utility Dwgs Device, Reversing Bo3.1 El Utility Dwgs Device, Separate Excitation Bo3.1 El Utility Dwgs Device, Spead or Frequency Bo3.1 El Utility Dwgs Dosonnect, circuit LANL Fire Prot DAB Diffuser, aeration basin LANL Fire Prot DAB Diffuser, aeration basin LANL Fire Prot DAB Diffuser, aeration basin LANL Fire Prot DAB Doror, fire, electrical LANL Fire Prot DAC Door, fire, electrical LANL Fire Prot DAC Door, fire, electrical LANL	CAW			
CTO Crane, bridge LANL C/S/Arch CTG Crane, gantry LANL C/S/Arch CJ Crane, gantry LANL C/S/Arch CM Crane, monorail LANL C/S/Arch CS Crane, shop LANL Shop DMP Damper, shop LANL Shop DMP Damper, fire LANL Shop DF Damper, fire LANL Fire Prot DS Damper, smoke LANL Mech DHM Dehumidifier LANL Mech DMN Demineralizer LANL Mech DSH Desuperheater LANL Mech 28 Detector, Flame 803.1 El Utility Dwgs BD Detector, radiation 5.1 I&C RE Detector, radiation 5.1 I&C SMD Device, Accelerating 803.1 El Utility Dwgs 26 Device, Apparatus Thermal 803.1 El Utility Dwgs	WCR		ASME	Mech
CTG Crane, gantry LANL C/S/Arch CJ Crane, jib LANL C/S/Arch CM Crane, ibo LANL C/S/Arch CS Crane, shop LANL C/S/Arch CS Crane, itres/motor LANL Shop DMP Damper 803.1 Mech DF Damper, fire LANL Fire Prot DF Damper, smoke LANL Fire Prot DBM Dehumidifier LANL Mech DMN Demineralizer LANL Mech DBM Desuperheater LANL Mech 28 Detector, Flame 803.1 El Utility Dwgs BD Detector, Flame 803.1 El Utility Dwgs BD Detector, radiation 5.1 I&C RE Detector, accelerating 803.1 El Utility Dwgs 38 Device, Accelerating 803.1 El Utility Dwgs 35 Device, Bearing Protective 803.1 El Utility Dwgs				C/S/Arch
CJ Crane, jib LANL C/S/Arch CM Crane, monorail LANL C/S/Arch CS Crane, shop LANL C/S/Arch CS Crane, shop LANL C/S/Arch CRANE Crane, tires/motor LANL Shop DMP Damper 803.1 Mech DF Damper, fire LANL Fire Prot DS Damper, smoke LANL Fire Prot DS Damper, smoke LANL Fire Prot DS Damper, smoke LANL Fire Prot DHM Dehumidifier LANL Mech DMN Demineralizer LANL Mech DSH Desuperheater LANL Mech DSH Desuperheater LANL Fire Prot ES Detector, Flame 803.1 EI Utility Dwgs HD Detector, neat LANL Fire Prot ES Detector, radiation 5.1 I&C SMD Detector, smoke LANL Fire Prot ES Device, Accelerating 803.1 EI Utility Dwgs B Device, Accelerating 803.1 EI Utility Dwgs Device, Brush-Operating or Silp-Ring Short Circuiting B Device, Control Power 803.1 EI Utility Dwgs Silp-Ring Short Circuiting B Device, Manual Trans/Select 803.1 EI Utility Dwgs Disconnecting BD Device, Master Sequence 803.1 EI Utility Dwgs Device, Master Sequence 803.1 EI Utility Dwgs Device, Polarity or Polarizing 803.1 EI Utility Dwgs Device, Polarity or Polarizing 803.1 EI Utility Dwgs Device, Polarity or Polarizing 803.1 EI Utility Dwgs Device, Spearate Excitation 803.1 EI Utility Dwgs Device, Polarity or Polarizing 803.1 EI Utility Dwgs Device, Spearate Excitation 803.1 EI Utility Dwgs Device, Short-Circuiting or Grounding Device, Spearate Excitation 803.1 EI Utility Dwgs Device, Short-Circuiting or Grounding Device, Spearate Excitation 803.1 EI Utility Dwgs Device, Short-Circuiting or Grounding 803.1 EI Utility Dwgs Device, Short-Circuiting CANL Elec DHO Disconnect, motor operated LANL Fire Prot DC Door, fire, electrical LANL Fire Prot DC Door, fire, pectrical LANL Fire Prot DC Door, fire, pectrical LANL Fire Prot DC Door, fire, pectrical LANL Fire Prot DR D	CTG		LANL	
CM Crane, monorail LANL C/S/Arch CS Crane, shop LANL C/S/Arch CRANE Crane, shop LANL Shop DMP Damper 803.1 Mech DF Damper, fire LANL Fire Prot DS Damper, smoke LANL Mech DBM Dehumidifier LANL Mech DHM Dehumidifier LANL Mech DSH Desuperheater LANL Mech DBH Desuperheater LANL Mech BDH Desuperheater LANL Fire Prot BD Detector, feat LANL Fire Prot RE Detector, smoke LANL Fire Prot RE Detector, smoke LANL Fire Prot BD Detector, smoke LANL Fire Prot BD Device, Apparatus Thermal 803.1 EI Utility Dwgs BB Device, Bearing Protective 803.1 EI Utility Dwgs Bip-Ring S				
CS Crane, shop LANL C/S/Arch CRANE Crane, tires/motor LANL Shop DMP Damper 803.1 Mech DF Damper, fire LANL Fire Prot DS Damper, smoke LANL Fire Prot DS Damper, smoke LANL Mech DHM Dehumidifier LANL Mech DMN Demineralizer LANL Mech DSH Desuperheater LANL Mech DSH Detector, Flame 803.1 El Utility Dwgs HD Detector, radiation 5.1 I&C SMD Detector, radiation 5.1 I&C SMD Detector, smoke LANL Fire Prot RE Detector, radiation 5.1 I&C SMD Detector, smoke LANL Fire Prot 18A Device, Accelerating 803.1 El Utility Dwgs 38 Device, Apparatus Thermal 803.1 El Utility Dwgs 38 Device, Brush-Operating or Slip-Ring Short Circuiting 8 Device, Control Power 803.1 El Utility Dwgs 18D Device, Decelerating 803.1 El Utility Dwgs 18D Device, Decelerating 803.1 El Utility Dwgs 34 Device, Manual Trans/Select 803.1 El Utility Dwgs 34 Device, Manual Trans/Select 803.1 El Utility Dwgs 36 Device, Potarity or Polarizing 803.1 El Utility Dwgs 37 Device, Notching or Jogging 803.1 El Utility Dwgs 38 Device, Roterspeed 803.1 El Utility Dwgs 39 Device, Reversing 803.1 El Utility Dwgs 40 Device, Notching or Jogging 803.1 El Utility Dwgs 41 Device, Overspeed 803.1 El Utility Dwgs 42 Device, Reversing 803.1 El Utility Dwgs 43 Device, Reversing 803.1 El Utility Dwgs 45 Device, Sparate Excitation 803.1 El Utility Dwgs 46 Device, Reversing 803.1 El Utility Dwgs 47 Device, Spearate Excitation 803.1 El Utility Dwgs 48 Device, Spearate Excitation 803.1 El Utility Dwgs 49 Device, Spearate Excitation 803.1 El Utility Dwgs 40 Device, Spearate Excitation 803.1 El Utility Dwgs 40 Device, Spearate Excitation 803.1 El Utility Dwgs 41 Device, Spearate Excitation 803.1 El Utility Dwgs 42 Device, Spearate Excitation 803.1 El Utility Dwgs 43 Device, Spearate Excitation 803.1 El Utility Dwgs 44 Device, Overspeed 803.1 El Utility Dwgs 45 Device, Spearate Excitation 803.1 El Utility Dwgs 46 Device, Spearate Excitation 803.1 El Utility Dwgs 47 Device, Spearate Excitation 803.1 El Utility Dwgs 48 Device, Spearate Excitation 803.1 El Utility Dwgs 49 Device, Spearate Excitati				
CRANE Crane, tires/motor LANL Shop DMP Damper 803.1 Mech DF Damper, fire LANL Fire Prot DS Damper, smoke LANL Fire Prot DS Damper, smoke LANL Fire Prot DHM Dehumidifier LANL Mech DMN Demineralizer LANL Mech DSH Desuperheater LANL Mech DSH Desuperheater LANL Fire Prot BSH Desuperheater LANL Fire Prot BSH Detector, Flame 803.1 El Utility Dwgs HD Detector, radiation 5.1 la.C SMD Detector, radiation 5.1 la.C SMD Detector, smoke LANL Fire Prot 18A Device, Accelerating 803.1 El Utility Dwgs 18 Device, Apparatus Thermal 803.1 El Utility Dwgs 35 Device, Apparatus Thermal 803.1 El Utility Dwgs 36 Device, Brush-Operating or Slip-Ring Short Circuiting 8 Device, Brush-Operating or Slip-Ring Short Circuiting 8 Device, Decelerating 803.1 El Utility Dwgs 18D Device, Manual Trans/Select 803.1 El Utility Dwgs 18D Device, Master Sequence 803.1 El Utility Dwgs 18D Device, Master Sequence 803.1 El Utility Dwgs 12 Device, Notching or Jogging 803.1 El Utility Dwgs 12 Device, Polarity or Polarizing Voltage 9 Device, Polarity or Polarizing 803.1 El Utility Dwgs 10 Device, Separate Excitation 803.1 El Utility Dwgs 11 Device, Separate Excitation 803.1 El Utility Dwgs 12 Device, Reversing 803.1 El Utility Dwgs 13 Device, Separate Excitation 803.1 El Utility Dwgs 14 Device, Spearate Excitation 803.1 El Utility Dwgs 15 Device, Spearate Excitation 803.1 El Utility Dwgs 16 Device, Spearate Excitation 803.1 El Utility Dwgs 17 Device, Spearate Excitation 803.1 El Utility Dwgs 18 Device, Spearate Excitation 803.1 El Utility Dwgs 19 Device, Spearate Excitation 803.1 El Utility Dwgs 10 Device, Spearate Excitation 803.1 El Utility Dwgs 11 Device, Spearate Excitation 803.1 El Utility Dwgs 12 Device, Spearate Excitation 803.1 El Utility Dwgs 13 Device, Spearate Excitation 803.1 El Utility Dwgs 14 Device, Spearate Excitation 803.1 El Utility Dwgs 15 Device, Spearate Excitation 803.1 El Utility Dwgs 16 Device, Spearate Excitation 803.1 El Utility Dwgs 17 Device, Spearate Excitation 803.1 El Utility Dwgs 18 Device, Spearate Excitation 803.1 El Uti				
DMP Damper B03.1 Mech DF Damper, fire LANL Fire Prot DS Damper, smoke LANL Fire Prot DS Damper, smoke LANL Fire Prot DHM Dehumidifier LANL Mech DMN Demineralizer LANL Mech DSH Desuperheater LANL Mech DSH Desuperheater B03.1 EI Utility Dwgs HD Detector, Flame B03.1 EI Utility Dwgs HD Detector, radiation 5.1 I&C SMD Detector, smoke LANL Fire Prot 18A Device, Accelerating B03.1 EI Utility Dwgs 26 Device, Apparatus Thermal B03.1 EI Utility Dwgs B03.1 Device, Bearing Protective B03.1 EI Utility Dwgs B03.1 Device, Bush-Operating or B1BP Device, Control Power B03.1 EI Utility Dwgs B1BP-Ring Short Circuiting B03.1 EI Utility Dwgs B1BP-Ring Short Circuiting B03.1 EI Utility Dwgs B1BP-Ring Short Circuiting B03.1 EI Utility Dwgs B1BP Device, Decelerating B03.1 EI Utility Dwgs B1BP Device, Manual Trans/Select B03.1 EI Utility Dwgs B1BD Device, Master Sequence B03.1 EI Utility Dwgs B1BD Device, Notching or Jogging B03.1 EI Utility Dwgs B1BP Device, Notching or Jogging B03.1 EI Utility Dwgs B1BP Device, Polarity or Polarizing Voltage B1B Device, Reversing B03.1 EI Utility Dwgs B1BP Device, Polarity or Polarizing B03.1 EI Utility Dwgs B1BP Device, Separate Excitation B03.1 EI Utility Dwgs B1BP Device, Spearate Excita				
DF Damper, fire LANL Fire Prot DS Damper, smoke LANL Fire Prot DHM Dehumidifier LANL Mech DMN Demineralizer LANL Mech DSH Desuperheater LANL Mech DSH Desuperheater LANL Mech DESH Desuperheater LANL Fire Prot RE Detector, Flame 803.1 El Utility Dwgs HD Detector, radiation 5.1 &&C SMD Detector, radiation 5.1 &&C SMD Detector, smoke LANL Fire Prot RE Detector, radiation 5.1 &&C SMD Detector, smoke LANL Fire Prot 18A Device, Accelerating 803.1 El Utility Dwgs 18D Device, Apparatus Thermal 803.1 El Utility Dwgs 38 Device, Apparatus Thermal 803.1 El Utility Dwgs 39 Device, Brush-Operating or Slip-Ring Short Circuiting 803.1 El Utility Dwgs 19D Device, Decelerating 803.1 El Utility Dwgs 19D Device, Decelerating 803.1 El Utility Dwgs 19D Device, Decelerating 803.1 El Utility Dwgs 19D Device, Manual Trans/Select 803.1 El Utility Dwgs 19D Device, Master Sequence 803.1 El Utility Dwgs 19D Device, Notching or Jogging 803.1 El Utility Dwgs 19D Device, Polarity or Polarizing 803.1 El Utility Dwgs 19D Device, Polarity or Polarizing 803.1 El Utility Dwgs 19D Device, Polarity or Polarizing 803.1 El Utility Dwgs 19D Device, Separate Excitation 803.1 El Utility Dwgs 19D Device, Separate Excitation 803.1 El Utility Dwgs 19D Device, Sport-Circuiting or 19D Device, Stopping 803.1 El Utility Dwgs 19D Device, Stopping				
DS Damper, smoke LANL Fire Prot DHM Dehumidifier LANL Mech DSH Demineralizer LANL Mech DSH Desuperheater LANL Mech DSH Desuperheater LANL Fire Prot LANL Desuperheater LANL Fire Prot Detector, Flame Book Detector, Flame Book LANL Fire Prot RE Detector, radiation 5.1 B&C SMD Detector, smoke LANL Fire Prot 18A Device, Accelerating Book LANL Fire Prot 18A Device, Accelerating Book LANL Fire Prot 18A Device, Bearing Protective Book Book Book Book Book Book Book Boo				
DHM Dehumidifier LANL Mech DMN Demineralizer LANL Mech DSH Desuperheater L8 Detector, Flame 803.1 Ei Utility Dwgs HD Detector, radiation 5.1 I&C SMD Detector, smoke LANL Fire Prot RE Detector, radiation 5.1 I&C SMD Detector, smoke LANL Fire Prot 18A Device, Accelerating 803.1 Ei Utility Dwgs 26 Device, Apparatus Thermal 803.1 Ei Utility Dwgs 28 Device, Bearing Protective 803.1 Ei Utility Dwgs 29 Device, Brush-Operating or Silp-Ring Short Circuiting Re Device, Control Power 803.1 Ei Utility Dwgs Re Device, Control Power 803.1 Ei Utility Dwgs Re Device, Control Power 803.1 Ei Utility Dwgs Re Device, Decelerating 803.1 Ei Utility Dwgs Re Device, Manual Trans/Select 803.1 Ei Utility Dwgs Re Device, Manual Trans/Select 803.1 Ei Utility Dwgs Re Device, Master Sequence 803.1 Ei Utility Dwgs Re Device, Master Sequence 803.1 Ei Utility Dwgs Re Device, Notching or Jogging 803.1 Ei Utility Dwgs Re Device, Polarity or Polarizing Re Re I Utility Dwgs Re Device, Polarity or Polarizing Re Re I Utility Dwgs Re Device, Separate Excitation 803.1 Ei Utility Dwgs Re Device, Separate Excitation 803.1 Ei Utility Dwgs Re Device, Separate Excitation 803.1 Ei Utility Dwgs Re Reversing 803.1 Ei Utility Dwgs Reversing 803.				
DMN Demineralizer LANL Mech DSH Desuperheater LANL Mech 28 Detector, Flame 803.1 El Utility Dwgs HD Detector, heat LANL Fire Prot RE Detector, radiation 5.1 I&C SMD Detector, smoke LANL Fire Prot 18A Device, Accelerating 803.1 El Utility Dwgs 38 Device, Apparatus Thermal 803.1 El Utility Dwgs 35 Device, Baring Protective 803.1 El Utility Dwgs 35 Device, Brush-Operating or Slip-Ring Short Circuiting 803.1 El Utility Dwgs 8 Device, Control Power Disconnecting 803.1 El Utility Dwgs 8 Device, Control Power Bisconnecting 803.1 El Utility Dwgs 43 Device, Master Sequence 803.1 El Utility Dwgs 43 Device, Master Sequence 803.1 El Utility Dwgs 50 Device, Notching or Jogging 803.1 El Utility Dwgs 12 Dev				
DSH Desuperheater LANL Mech 28 Detector, Flame 803.1 El Utility Dwgs HD Detector, adiation 5.1 l&C SMD Detector, adiation 5.1 l&C SMD Detector, smoke LANL Fire Prot 18A Device, Accelerating 803.1 El Utility Dwgs 26 Device, Apparatus Thermal 803.1 El Utility Dwgs 27 Device, Bearing Protective 803.1 El Utility Dwgs 28 Device, Bearing Protective 803.1 El Utility Dwgs 39 Device, Brush-Operating or Silp-Ring Short Circuiting 29 Device, Control Power Disconnecting 18D Device, Decelerating 803.1 El Utility Dwgs 43 Device, Manual Trans/Select 803.1 El Utility Dwgs 43 Device, Manual Trans/Select 803.1 El Utility Dwgs 43 Device, Master Sequence 803.1 El Utility Dwgs 43 Device, Notching or Jogging 803.1 El Utility Dwgs 44 Device, Notching or Jogging 803.1 El Utility Dwgs 45 Device, Polarity or Polarizing 803.1 El Utility Dwgs 46 Device, Polarity or Polarizing 803.1 El Utility Dwgs 47 Device, Reversing 803.1 El Utility Dwgs 48 Device, Sperate Excitation 803.1 El Utility Dwgs 49 Device, Royersing 803.1 El Utility Dwgs 50 Device, Sperate Excitation 803.1 El Utility Dwgs 51 Device, Sperate Excitation 803.1 El Utility Dwgs 52 Device, Sperate Excitation 803.1 El Utility Dwgs 53 Device, Sperate Excitation 803.1 El Utility Dwgs 54 Device, Speed or Frequency 803.1 El Utility Dwgs 55 Device, Speed or Frequency 803.1 El Utility Dwgs 56 Device, Stopping 803.1 El Utility Dwgs 57 Device, Speed or Frequency 803.1 El Utility Dwgs 58 Device, Temperature Control 803.1 El Utility Dwgs 59 Device, Temperature Control 803.1 El Utility Dwgs 40 Device, Inderspeed 803.1 El Utility Dwgs 41 Device, Inderspeed 803.1 El Utility Dwgs 42 Device, Temperature Control 803.1 El Utility Dwgs 43 Device, Temperature Control 803.1 El Utility Dwgs 44 Device, Inderspeed 803.1 El Utility Dwgs 45 Device, Temperature Control 803.1 El Utility Dwgs 46 Device, Temperature Control 803.1 El Utility Dwgs 47 Device, Synchronous Speed 803.1 El Utility Dwgs 48 Device, Texperimental LANL Relec 48 Device, Temperature Control 803.1 El U				
28 Detector, Flame 803.1 El Utility Dwgs HD Detector, heat LANL Fire Prot RE Detector, radiation 5.1 I&C SMD Detector, smoke LANL Fire Prot 18A Device, Accelerating 803.1 El Utility Dwgs 26 Device, Accelerating 803.1 El Utility Dwgs 38 Device, Brush-Operating or Silp-Ring Short Circuiting 803.1 El Utility Dwgs 35 Device, Control Power Disconnecting 803.1 El Utility Dwgs 8 Device, Control Power Disconnecting 803.1 El Utility Dwgs 18D Device, Decelerating 803.1 El Utility Dwgs 43 Device, Manual Trans/Select 803.1 El Utility Dwgs 44 Device, Master Sequence 803.1 El Utility Dwgs 56 Device, Notching or Jogging 803.1 El Utility Dwgs 66 Device, Polarity or Polarizing 803.1 El Utility Dwgs 7 Device, Polarity or Polarizing 803.1 El Utility Dwgs				
HD Detector, heat LANL Fire Prot			1	
RE Detector, radiation				Fire Prot
SMD Detector, smoke LANL Fire Prot 18A Device, Accelerating 803.1 El Utility Dwgs 26 Device, Apparatus Thermal 803.1 El Utility Dwgs 38 Device, Bearing Protective 803.1 El Utility Dwgs 35 Device, Bearing Protective 803.1 El Utility Dwgs 8 Device, Control Power 803.1 El Utility Dwgs 18D Device, Decelerating 803.1 El Utility Dwgs 43 Device, Manual Trans/Select 803.1 El Utility Dwgs 34 Device, Master Sequence 803.1 El Utility Dwgs 66 Device, Notching or Jogging 803.1 El Utility Dwgs 12 Device, Overspeed 803.1 El Utility Dwgs 36 Device, Polarity or Polarizing 803.1 El Utility Dwgs 31 Device, Reversing 803.1 El Utility Dwgs 31 Device, Separate Excitation 803.1 El Utility Dwgs 57 Device, Short-Circuiting or Grounding 803.1 El Utility Dwgs </td <td></td> <td></td> <td></td> <td></td>				
18A Device, Accelerating 26 Device, Apparatus Thermal 803.1 El Utility Dwgs 38 Device, Bearing Protective 803.1 El Utility Dwgs 35 Device, Brush-Operating or 803.1 El Utility Dwgs Slip-Ring Short Circuiting 8 Device, Control Power 803.1 El Utility Dwgs Disconnecting 803.1 El Utility Dwgs 43 Device, Manual Trans/Select 803.1 El Utility Dwgs 34 Device, Master Sequence 803.1 El Utility Dwgs 34 Device, Notching or Jogging 803.1 El Utility Dwgs 36 Device, Notching or Jogging 803.1 El Utility Dwgs 12 Device, Overspeed 803.1 El Utility Dwgs 806 Device, Polarity or Polarizing 803.1 El Utility Dwgs 806 Device, Polarity or Polarizing 803.1 El Utility Dwgs 806 Device, Separate Excitation 803.1 El Utility Dwgs 809 Device, Reversing 800.1 El Utility Dwgs 800.1 Device, Spearate Excitation 800.1 El Utility Dwgs 800.1 Device, Speed or Frequency 800.1 El Utility Dwgs 800.1 Device, Speed or Frequency 800.1 El Utility Dwgs 800.1 Device, Stopping 800.1 El Utility Dwgs 800.1 Device, Stopping 800.1 El Utility Dwgs 800.1 Device, Stopping 800.1 El Utility Dwgs 800.1 Device, Underspeed 800.1 El Utility Dwgs 800				
26 Device, Apparatus Thermal 803.1 El Utility Dwgs 38 Device, Bearing Protective 803.1 El Utility Dwgs 31 Device, Brush-Operating or Slip-Ring Short Circuiting 8 Device, Control Power 803.1 El Utility Dwgs Disconnecting 803.1 El Utility Dwgs 43 Device, Manual Trans/Select 803.1 El Utility Dwgs 66 Device, Notching or Jogging 803.1 El Utility Dwgs 12 Device, Overspeed 803.1 El Utility Dwgs 806 Device, Notching or Jogging 803.1 El Utility Dwgs 12 Device, Overspeed 803.1 El Utility Dwgs 806 Device, Polarity or Polarizing 803.1 El Utility Dwgs 806 Device, Polarity or Polarizing 803.1 El Utility Dwgs 806 Device, Reversing 803.1 El Utility Dwgs 806 Device, Reversing 803.1 El Utility Dwgs 807 Device, Reversing 803.1 El Utility Dwgs 809 Device, Reversing 803.1 El Utility Dwgs 809 Device, Spead or Frequency 800.1 El Utility Dwgs 800.1 Device, Speed or Frequency 800.1 El Utility Dwgs 800.1 Device, Speed or Frequency 800.1 El Utility Dwgs 800.1 Device, Stopping 800.1 El Utility Dwgs 800.1 Device, Synchronous Speed 800.1 El Utility Dwgs 800.1 Device, Synchronous Speed 800.1 El Utility Dwgs 800.1 Device, Synchronous Speed 800.1 El Utility Dwgs 800.1 Device, Temperature Control 800.1 El Utility Dwgs 800.1 Device, Temperature Control 800.1 El Utility Dwgs 800.1 El Utility Dwgs 800.1 Device, Temperature Control 800.1 El Utility Dwgs 800.1 El Utility Dwgs 800.1 El Utility Dwgs 800.1 Device, Temperature 800.1 El Utility Dwgs 80				
38 Device, Bearing Protective 803.1 El Utility Dwgs 35 Device, Brush-Operating or Slip-Ring Short Circuiting 803.1 El Utility Dwgs 8 Device, Control Power Disconnecting 803.1 El Utility Dwgs 18D Device, Decelerating 803.1 El Utility Dwgs 43 Device, Manual Trans/Select 803.1 El Utility Dwgs 34 Device, Matser Sequence 803.1 El Utility Dwgs 66 Device, Notching or Jogging 803.1 El Utility Dwgs 12 Device, Overspeed 803.1 El Utility Dwgs 36 Device, Polarity or Polarizing Voltage 803.1 El Utility Dwgs 9 Device, Reversing 803.1 El Utility Dwgs 31 Device, Separate Excitation 803.1 El Utility Dwgs 57 Device, Short-Circuiting or Rosa.1 El Utility Dwgs 15 Device, Speed or Frequency Rosa.1 El Utility Dwgs 16 Device, Stopping 803.1 El Utility Dwgs 17 Device, Synchronous Speed 803.1 El Utilit				
Device, Brush-Operating or Slip-Ring Short Circuiting			1	
Slip-Ring Short Circuiting B Device, Control Power Disconnecting 18D Device, Decelerating 43 Device, Manual Trans/Select 803.1 El Utility Dwgs 34 Device, Master Sequence 803.1 El Utility Dwgs 34 Device, Master Sequence 803.1 El Utility Dwgs 36 Device, Notching or Jogging 12 Device, Overspeed 803.1 El Utility Dwgs 12 Device, Polarity or Polarizing 803.1 El Utility Dwgs 13 Device, Reversing 803.1 El Utility Dwgs 9 Device, Reversing 803.1 El Utility Dwgs 31 Device, Separate Excitation 803.1 El Utility Dwgs 57 Device, Short-Circuiting or Boald El Utility Dwgs 58 Device, Speed or Frequency 803.1 El Utility Dwgs 59 Device, Speed or Frequency 803.1 El Utility Dwgs 803.1 El Utility Dwgs				El Hility Dwgs
Boundary	33		003.1	Li Otility Dwgs
Disconnecting 18D Device, Decelerating 30 Device, Manual Trans/Select 31 Device, Manual Trans/Select 32 Device, Master Sequence 33 Device, Master Sequence 34 Device, Master Sequence 35 Device, Notching or Jogging 36 Device, Overspeed 37 Device, Polarity or Polarizing 38 Device, Polarity or Polarizing 39 Device, Reversing 30 Device, Separate Excitation 30 Device, Separate Excitation 30 Device, Short-Circuiting or 30 Grounding 30 Device, Speed or Frequency 30 Matching 40 Device, Speed or Frequency 40 Device, Stopping 41 Device, Stopping 42 Device, Stopping 43 Device, Synchronous Speed 44 Device, Underspeed 45 Device, Underspeed 46 Device, Underspeed 47 Device, Underspeed 48 Device, Underspeed 49 Device, Underspeed 40 Disconnect, circuit 40 Device, Underspeed 51 Device, Underspeed 52 Device, Temperature Control 53 Device, Temperature Control 54 Device, Underspeed 55 Device, Temperature Control 56 Device, Temperature Control 57 Device, Synchronous Speed 58 Device, Temperature Control 59 Device, Temperature Control 50 Disconnect, circuit 50 Device, Underspeed 50 Device, Very Underspeed 50 Device, Ver	Ω	Device Control Power	803.1	ELLItility Dwgs
18D Device, Decelerating 803.1 El Utility Dwgs 43 Device, Manual Trans/Select 803.1 El Utility Dwgs 34 Device, Master Sequence 803.1 El Utility Dwgs 66 Device, Notching or Jogging 803.1 El Utility Dwgs 12 Device, Overspeed 803.1 El Utility Dwgs 36 Device, Polarity or Polarizing 803.1 El Utility Dwgs 36 Device, Polarity or Polarizing 803.1 El Utility Dwgs 31 Device, Reversing 803.1 El Utility Dwgs 31 Device, Separate Excitation 803.1 El Utility Dwgs 57 Device, Short-Circuiting or 803.1 El Utility Dwgs 15 Device, Stopping 803.1 El Utility Dwgs 13 Device, Stopping 803.1 El Utility Dwgs 14 Device, Underspeed 803.1 El Utility Dwgs 14 Device, Underspeed 803.1 El Utility Dwgs 14 Device, Temperature Control 803.1 El Utility Dwgs	O		003.1	Li Otility Dwgs
Device, Manual Trans/Select 803.1 El Utility Dwgs Device, Master Sequence 803.1 El Utility Dwgs 66 Device, Notching or Jogging 803.1 El Utility Dwgs 12 Device, Overspeed 803.1 El Utility Dwgs 36 Device, Polarity or Polarizing Voltage 9 Device, Reversing 803.1 El Utility Dwgs 31 Device, Separate Excitation 803.1 El Utility Dwgs 31 Device, Separate Excitation 803.1 El Utility Dwgs 31 Device, Separate Excitation 803.1 El Utility Dwgs 31 Device, Speed or Frequency 803.1 El Utility Dwgs 31 Device, Speed or Frequency 803.1 El Utility Dwgs 31 Device, Speed or Frequency 803.1 El Utility Dwgs 31 Device, Speed or Frequency 803.1 El Utility Dwgs 32 Device, Temperature Control 803.1 El Utility Dwgs 32 Device, Temperature Control 803.1 El Utility Dwgs 32 Device, Temperature Control 803.1 El Utility Dwgs 32 Device, Underspeed 803.1 El Utility Dwgs 34 Device, Underspeed 803.1 El Utility Dwgs 35 Device, Temperature Control 803.1 El Utility Dwgs 36 Diffuser, aeration basin LANL Mech 36 Disconnect, circuit LANL Elec 37 Device, Control 803.1 El Utility Dwgs 39 Device, Temperature Control 803.1 El Utility Dwgs 39 Device, Temperature Control 803.1 El Utility Dwgs 30 Device, Temperature Control 803.1 El Utility Dwgs 40 Device, variatin LANL Elec 40 Device, variatin 40 Device, variable frequency LANL 80 Device, Verb 40 Device, Verb 40 Device, Verb 40 Device, Verb 40 Dev	18D		803.1	ELLItility Dwgs
34 Device, Master Sequence 803.1 El Utility Dwgs 66 Device, Notching or Jogging 803.1 El Utility Dwgs 12 Device, Overspeed 803.1 El Utility Dwgs 36 Device, Polarity or Polarizing 803.1 El Utility Dwgs 9 Device, Reversing 803.1 El Utility Dwgs 31 Device, Separate Excitation 803.1 El Utility Dwgs 57 Device, Short-Circuiting or Grounding 803.1 El Utility Dwgs 15 Device, Speed or Frequency Matching 803.1 El Utility Dwgs 5 Device, Stopping 803.1 El Utility Dwgs 13 Device, Synchronous Speed 803.1 El Utility Dwgs 14 Device, Temperature Control 803.1 El Utility Dwgs 14 Device, Underspeed 803.1 El Utility Dwgs 15 Device, Stopping 803.1 El Utility Dwgs 16 Device, Stopping 803.1 El Utility Dwgs 17 Bustility Dwgs 803.1 El Utility Dwgs <t< td=""><td></td><td></td><td></td><td>El Litility Dwgs</td></t<>				El Litility Dwgs
66 Device, Notching or Jogging 803.1 El Utility Dwgs 12 Device, Overspeed 803.1 El Utility Dwgs 36 Device, Polarity or Polarizing Voltage 803.1 El Utility Dwgs 9 Device, Reversing 803.1 El Utility Dwgs 31 Device, Separate Excitation 803.1 El Utility Dwgs 57 Device, Short-Circuiting or Grounding 803.1 El Utility Dwgs 15 Device, Speed or Frequency Matching 803.1 El Utility Dwgs 5 Device, Stopping 803.1 El Utility Dwgs 13 Device, Synchronous Speed 803.1 El Utility Dwgs 14 Device, Temperature Control 803.1 El Utility Dwgs 14 Device, Underspeed 803.1 El Utility Dwgs 14 Device, Underspeed 803.1 El Utility Dwgs 14 Device, Underspeed 803.1 El Utility Dwgs 15 Disinfection Exercice LANL Mech 16 Disconnect, circuit LANL Elec		Device Master Sequence		
12 Device, Overspeed 803.1 El Utility Dwgs Voltage 9 Device, Reversing 803.1 El Utility Dwgs 31 Device, Separate Excitation 803.1 El Utility Dwgs 31 Device, Separate Excitation 803.1 El Utility Dwgs 31 Device, Short-Circuiting or 303.1 El Utility Dwgs 31 Device, Short-Circuiting or 303.1 El Utility Dwgs 31 Device, Speed or Frequency 303.1 El Utility Dwgs 31 Device, Stopping 803.1 El Utility Dwgs 31 Device, Stopping 803.1 El Utility Dwgs 32 Device, Synchronous Speed 803.1 El Utility Dwgs 32 Device, Temperature Control 803.1 El Utility Dwgs 32 Device, Temperature Control 803.1 El Utility Dwgs 32 Device, Underspeed 803.1 El Utility Dwgs 32 Device, Temperature Control 803.1 El Utility Dwgs 32 Device, Underspeed 803.1 El Utility Dwgs 32 Device, Temperature Control 803.1 El Utility Dwgs 34 Device, Underspeed 803.1 El Utility Dwgs 35 Device, Temperature Control 803.1 El Utility Dwgs 36 Device, Temperature Control 803.1 El Utility Dwgs 403.1 El Ut				
Device, Polarity or Polarizing Voltage Solation				
Voltage Device, Reversing Boundary Device, Separate Excitation Device, Separate Excitation Device, Short-Circuiting or Grounding Device, Speed or Frequency Matching Device, Stopping Device, Stopping Device, Stopping Device, Synchronous Speed Bos.1 El Utility Dwgs El Utility Dwgs Device, Stopping Device, Synchronous Speed Bos.1 El Utility Dwgs Device, Synchronous Speed Bos.1 El Utility Dwgs Le Utility Dwgs Device, Temperature Control Device, Underspeed Bos.1 El Utility Dwgs Le Utility Dwgs Device, Temperature Control Device, Underspeed Bos.1 El Utility Dwgs Device, Underspeed Bos.1 El Utility Dwgs Le Utility Dwgs Le Utility Dwgs Device, Temperature Control Bos.1 El Utility Dwgs Le Utilite Le Utility Dwgs Le Utili		Dovice Polarity or Polarizing		
9 Device, Reversing 803.1 El Utility Dwgs 31 Device, Separate Excitation 803.1 El Utility Dwgs 57 Device, Short-Circuiting or 803.1 El Utility Dwgs Grounding 15 Device, Speed or Frequency 803.1 El Utility Dwgs Matching 5 Device, Stopping 803.1 El Utility Dwgs 13 Device, Synchronous Speed 803.1 El Utility Dwgs 14 Device, Underspeed 803.1 El Utility Dwgs 15 Disconnect, eircuit LANL Elec 16 DHO Disconnect, circuit LANL Elec 17 DHO Disconnect, motor operated LANL Elec 18 DHO Disconnect, motor operated LANL Elec 18 DHO Disconnect, motor operated LANL Elec 19 DHO	30		003.1	Li Otility Dwgs
Device, Separate Excitation So3.1 El Utility Dwgs	9	Device. Reversing	803.1	El Utility Dwas
Device, Short-Circuiting or Grounding		Device. Separate Excitation		El Utility Dwas
Grounding 15 Device, Speed or Frequency Matching 5 Device, Stopping 803.1 El Utility Dwgs 13 Device, Synchronous Speed 803.1 El Utility Dwgs 13 Device, Synchronous Speed 803.1 El Utility Dwgs 14 Device, Underspeed 803.1 El Utility Dwgs 15 DAB Diffuser, aeration basin LANL Mech 16 DD Disconnect, circuit LANL Elec 17 DHO Disconnect, hand-operated LANL Elec 18 DHO Disconnect, motor operated LANL Elec 18 DHO Disconnect, motor operated LANL Elec 19 DOOr Boor Boor, air curtain LANL Mech 19 DAC Door, air curtain LANL Fire Prot 19 Door, fire, electrical LANL Fire Prot 19 Door, fire, mechanical LANL Fire Prot 19 Door, fire, structural LANL Fire Prot 19 DM Door, motorized LANL Fire Prot 10 DM Door, motorized LANL Fire Prot 10 DM Door, roll-up, electric LANL C/S/Arch 10 DRE Door, roll-up, hydraulic LANL C/S/Arch 10 DRM Door, roll-up, manual LANL C/S/Arch 11 DRM Door, roll-up, manual LANL C/S/Arch 12 DRM Door, roll-up, manual LANL C/S/Arch 13 DRM Drain Boor ASME Mech 14 Drive, fluid LANL Mech 15 Drive, variable frequency LANL Elec 15 DRANL Mech 16 Drive, variable frequency LANL Elec		Device. Short-Circuiting or		El Utility Dwas
Device, Speed or Frequency Matching				3.
Matching Device, Stopping Bostoce, Synchronous Speed Bostoce, Synchronous Speed Bostoce, Synchronous Speed Bostoce, Synchronous Speed Bostoce, Temperature Control Bostoce, Tempera	15	Device, Speed or Frequency	803.1	El Utility Dwgs
Device, Synchronous Speed 803.1 El Utility Dwgs Device, Temperature Control 803.1 El Utility Dwgs 14 Device, Underspeed 803.1 El Utility Dwgs DAB Diffuser, aeration basin LANL Mech CDD Disconnect, circuit LANL Elec DHO Disconnect, hand-operated LANL Elec DMO Disconnect, motor operated LANL Elec MDS Disinfection system, mixed-oxidant LANL Mech CS/Arch DAC Door, air curtain LANL C/S/Arch DAC Door, fire, electrical LANL Fire Prot FDF Door, fire, mechanical LANL Fire Prot DM Door, motorized LANL Fire Prot DM Door, motorized LANL Fire Prot DM Door, roll-up, electric LANL C/S/Arch DRH Door, roll-up, hydraulic LANL C/S/Arch DRM Door, roll-up, manual LANL C/S/Arch DRN Drain 803.1 Mech DFL Drive, fluid LANL Mech Drive, variable frequency LANL Elec DAD Dryer, air, desiccant LANL Elec DAD Dryer, air, desiccant LANL Elec		Matching		, ,
Device, Temperature Control 803.1 El Utility Dwgs DAB Diffuser, aeration basin LANL Mech Disconnect, circuit LANL Elec DHO Disconnect, hand-operated LANL Elec DMO Disconnect, motor operated LANL Elec DANL Elec DANL Fire Prot Door, air curtain LANL C/S/Arch DAC Door, fire, electrical LANL Fire Prot DOOR, fire, mechanical LANL Fire Prot DM Door, fire, structural LANL Fire Prot DM Door, motorized LANL Fire Prot DM Door, motorized LANL C/S/Arch DRE Door, roll-up, electric LANL C/S/Arch DRH Door, roll-up, hydraulic LANL C/S/Arch DRM Door, roll-up, manual LANL C/S/Arch DRN Drain 803.1 Mech DFD Drain, floor ASME Mech DFL Drive, fluid LANL Mech VFD Drive, variable frequency LANL Elec DAD Dryer, air, desiccant LANL Mech	5		803.1	El Utility Dwgs
14 Device, Underspeed 803.1 El Utility Dwgs DAB Diffuser, aeration basin LANL Mech CDD Disconnect, circuit LANL Elec DHO Disconnect, hand-operated LANL Elec DMO Disconnect, motor operated LANL Elec MDS Disinfection system, mixed- oxidant LANL Mech DR Door 803.1 C/S/Arch DAC Door, air curtain LANL Fire Prot FDE Door, fire, electrical LANL Fire Prot FDC Door, fire, structural LANL Fire Prot DM Door, motorized LANL Fire Prot DM Door, roll-up, electric LANL Fire Prot DRH Door, roll-up, hydraulic LANL C/S/Arch DRM Door, roll-up, manual LANL C/S/Arch DRN Drain 803.1 Mech FD Drain, floor ASME Mech DFL Drive, fluid LANL Mech DRD Drive, variable frequency LANL Elec DAD Dryer, air, desiccant LANL Mech	13	Device, Synchronous Speed	803.1	El Utility Dwgs
14 Device, Underspeed 803.1 El Utility Dwgs DAB Diffuser, aeration basin LANL Mech CDD Disconnect, circuit LANL Elec DHO Disconnect, hand-operated LANL Elec DMO Disconnect, motor operated LANL Elec MDS Disinfection system, mixed- oxidant LANL Mech DR Door 803.1 C/S/Arch DAC Door, air curtain LANL Fire Prot FDE Door, fire, electrical LANL Fire Prot FDC Door, fire, structural LANL Fire Prot DM Door, motorized LANL Fire Prot DM Door, roll-up, electric LANL Fire Prot DRH Door, roll-up, hydraulic LANL C/S/Arch DRM Door, roll-up, manual LANL C/S/Arch DRN Drain 803.1 Mech FD Drain, floor ASME Mech DFL Drive, fluid LANL Mech DRD Drive, variable frequency LANL Elec DAD Dryer, air, desiccant LANL Mech	23	Device, Temperature Control	803.1	El Utility Dwgs
CDD Disconnect, circuit LANL Elec DHO Disconnect, hand-operated LANL Elec DMO Disconnect, motor operated LANL Elec MDS Disinfection system, mixed-oxidant LANL Mech DR Door 803.1 C/S/Arch DAC Door, air curtain LANL C/S/Arch FDE Door, fire, electrical LANL Fire Prot FDF Door, fire, mechanical LANL Fire Prot FDC Door, fire, structural LANL Fire Prot DM Door, motorized LANL C/S/Arch DRE Door, roll-up, electric LANL C/S/Arch DRH Door, roll-up, hydraulic LANL C/S/Arch DRM Door, roll-up, manual LANL C/S/Arch DRN Drain 803.1 Mech FD Drain, floor ASME Mech DFL Drive, fluid LANL Elec DAD Dryer, air, desiccant LANL Mech		Device, Underspeed		El Utility Dwgs
DHO Disconnect, hand-operated LANL Elec DMO Disconnect, motor operated LANL Elec MDS Disinfection system, mixed- oxidant DR Door 803.1 C/S/Arch DAC Door, air curtain LANL Fire Prot FDE Door, fire, electrical LANL Fire Prot FDF Door, fire, mechanical LANL Fire Prot FDC Door, motorized LANL Fire Prot DM Door, motorized LANL Fire Prot DRE Door, roll-up, electric LANL C/S/Arch DRH Door, roll-up, hydraulic LANL C/S/Arch DRM Door, roll-up, manual LANL C/S/Arch DRN Drain 803.1 Mech FD Drain, floor ASME Mech DFL Drive, fluid LANL Mech VFD Drive, variable frequency LANL Elec DAD Dryer, air, desiccant LANL Mech		Diffuser, aeration basin	LANL	Mech
DHO Disconnect, hand-operated LANL Elec DMO Disconnect, motor operated LANL Elec MDS Disinfection system, mixed- oxidant DR Door 803.1 C/S/Arch DAC Door, air curtain LANL Fire Prot FDE Door, fire, electrical LANL Fire Prot FDF Door, fire, mechanical LANL Fire Prot FDC Door, motorized LANL Fire Prot DM Door, motorized LANL Fire Prot DRE Door, roll-up, electric LANL C/S/Arch DRH Door, roll-up, hydraulic LANL C/S/Arch DRM Door, roll-up, manual LANL C/S/Arch DRN Drain 803.1 Mech FD Drain, floor ASME Mech DFL Drive, fluid LANL Mech VFD Drive, variable frequency LANL Elec DAD Dryer, air, desiccant LANL Mech	CDD	Disconnect, circuit	LANL	Elec
MDS Disinfection system, mixed- oxidant DR Door 803.1 C/S/Arch DAC Door, air curtain LANL C/S/Arch FDE Door, fire, electrical LANL Fire Prot FDF Door, fire, mechanical LANL Fire Prot FDC Door, fire, structural LANL Fire Prot DM Door, motorized LANL Fire Prot DRE Door, roll-up, electric LANL C/S/Arch DRH Door, roll-up, hydraulic LANL C/S/Arch DRM Door, roll-up, manual LANL C/S/Arch DRN Drain 803.1 Mech FD Drain, floor ASME Mech DFL Drive, fluid LANL Mech VFD Drive, variable frequency LANL Elec DAD Dryer, air, desiccant LANL Mech	DHO		LANL	Elec
oxidant DR Door 803.1 C/S/Arch DAC Door, air curtain LANL C/S/Arch FDE Door, fire, electrical LANL Fire Prot FDF Door, fire, mechanical LANL Fire Prot FDC Door, fire, structural LANL Fire Prot DM Door, motorized LANL Fire Prot DRE Door, roll-up, electric LANL C/S/Arch DRH Door, roll-up, hydraulic LANL C/S/Arch DRM Door, roll-up, manual LANL C/S/Arch DRN Drain 803.1 Mech FD Drain, floor ASME Mech DFL Drive, fluid LANL Mech VFD Drive, variable frequency LANL Elec DAD Dryer, air, desiccant LANL Mech	DMO	Disconnect, motor operated	LANL	Elec
DR Door 803.1 C/S/Arch DAC Door, air curtain LANL C/S/Arch FDE Door, fire, electrical LANL Fire Prot FDF Door, fire, mechanical LANL Fire Prot FDC Door, fire, structural LANL Fire Prot DM Door, motorized LANL Fire Prot DRE Door, roll-up, electric LANL C/S/Arch DRH Door, roll-up, hydraulic LANL C/S/Arch DRM Door, roll-up, manual LANL C/S/Arch DRN Drain 803.1 Mech FD Drain, floor ASME Mech DFL Drive, fluid LANL Mech VFD Drive, variable frequency LANL Elec DAD Dryer, air, desiccant LANL Mech	MDS	Disinfection system, mixed-	LANL	Mech
DAC Door, air curtain LANL C/S/Arch FDE Door, fire, electrical LANL Fire Prot FDF Door, fire, mechanical LANL Fire Prot FDC Door, fire, structural LANL Fire Prot DM Door, motorized LANL C/S/Arch DRE Door, roll-up, electric LANL C/S/Arch DRH Door, roll-up, hydraulic LANL C/S/Arch DRM Door, roll-up, manual LANL C/S/Arch DRN Drain 803.1 Mech FD Drain, floor ASME Mech DFL Drive, fluid LANL Mech VFD Drive, variable frequency LANL Elec DAD Dryer, air, desiccant LANL Mech		oxidant		
FDE Door, fire, electrical LANL Fire Prot FDF Door, fire, mechanical LANL Fire Prot FDC Door, fire, structural LANL Fire Prot DM Door, motorized LANL C/S/Arch DRE Door, roll-up, electric LANL C/S/Arch DRH Door, roll-up, hydraulic LANL C/S/Arch DRM Door, roll-up, manual LANL C/S/Arch DRN Drain 803.1 Mech FD Drain, floor ASME Mech DFL Drive, fluid LANL Mech VFD Drive, variable frequency LANL Elec DAD Dryer, air, desiccant LANL Mech	DR	Door	803.1	C/S/Arch
FDF Door, fire, mechanical LANL Fire Prot FDC Door, fire, structural LANL Fire Prot DM Door, motorized LANL C/S/Arch DRE Door, roll-up, electric LANL C/S/Arch DRH Door, roll-up, hydraulic LANL C/S/Arch DRM Door, roll-up, manual LANL C/S/Arch DRN Drain 803.1 Mech FD Drain, floor ASME Mech DFL Drive, fluid LANL Mech VFD Drive, variable frequency LANL Elec DAD Dryer, air, desiccant LANL Mech	DAC	Door, air curtain	LANL	C/S/Arch
FDC Door, fire, structural LANL Fire Prot DM Door, motorized LANL C/S/Arch DRE Door, roll-up, electric LANL C/S/Arch DRH Door, roll-up, hydraulic LANL C/S/Arch DRM Door, roll-up, manual LANL C/S/Arch DRN Drain 803.1 Mech FD Drain, floor ASME Mech DFL Drive, fluid LANL Mech VFD Drive, variable frequency LANL Elec DAD Dryer, air, desiccant LANL Mech		Door, fire, electrical	LANL	Fire Prot
FDC Door, fire, structural LANL Fire Prot DM Door, motorized LANL C/S/Arch DRE Door, roll-up, electric LANL C/S/Arch DRH Door, roll-up, hydraulic LANL C/S/Arch DRM Door, roll-up, manual LANL C/S/Arch DRN Drain 803.1 Mech FD Drain, floor ASME Mech DFL Drive, fluid LANL Mech VFD Drive, variable frequency LANL Elec DAD Dryer, air, desiccant LANL Mech				
DM Door, motorized LANL C/S/Arch DRE Door, roll-up, electric LANL C/S/Arch DRH Door, roll-up, hydraulic LANL C/S/Arch DRM Door, roll-up, manual LANL C/S/Arch DRN Drain 803.1 Mech FD Drain, floor ASME Mech DFL Drive, fluid LANL Mech VFD Drive, variable frequency LANL Elec DAD Dryer, air, desiccant LANL Mech	FDC		LANL	
DRE Door, roll-up, electric LANL C/S/Arch DRH Door, roll-up, hydraulic LANL C/S/Arch DRM Door, roll-up, manual LANL C/S/Arch DRN Drain 803.1 Mech FD Drain, floor ASME Mech DFL Drive, fluid LANL Mech VFD Drive, variable frequency LANL Elec DAD Dryer, air, desiccant LANL Mech			LANL	C/S/Arch
DRH Door, roll-up, hydraulic LANL C/S/Arch DRM Door, roll-up, manual LANL C/S/Arch DRN Drain 803.1 Mech FD Drain, floor ASME Mech DFL Drive, fluid LANL Mech VFD Drive, variable frequency LANL Elec DAD Dryer, air, desiccant LANL Mech	DRE	Door, roll-up, electric		
DRM Door, roll-up, manual LANL C/S/Arch DRN Drain 803.1 Mech FD Drain, floor ASME Mech DFL Drive, fluid LANL Mech VFD Drive, variable frequency LANL Elec DAD Dryer, air, desiccant LANL Mech		Door, roll-up, hydraulic		
DRN Drain 803.1 Mech FD Drain, floor ASME Mech DFL Drive, fluid LANL Mech VFD Drive, variable frequency LANL Elec DAD Dryer, air, desiccant LANL Mech	DRM			
FD Drain, floor ASME Mech DFL Drive, fluid LANL Mech VFD Drive, variable frequency LANL Elec DAD Dryer, air, desiccant LANL Mech	DRN	•		
DFL Drive, fluid LANL Mech VFD Drive, variable frequency LANL Elec DAD Dryer, air, desiccant LANL Mech	FD	Drain, floor	ASME	Mech
VFD Drive, variable frequency LANL Elec DAD Dryer, air, desiccant LANL Mech	DFL			
DAD Dryer, air, desiccant LANL Mech	VFD		LANL	Elec

ID	Description <sorted by<="" th=""><th>Ref*</th><th>Discipline*</th></sorted>	Ref*	Discipline*
DUCT	Duct	803.1	Mech
DW	Dumbwaiter	ASME	C/S/Arch
EG	Electro corrector, gas	LANL	M&TE
EE	Elevator, electric	LANL	C/S/Arch
EH	Elevator, hydraulic	LANL	C/S/Arch
ENG	Engine	803.1	Mech
HVYEQ	Equipment, Heavy	LANL	Shop
ESS	Equipment, surveillance	LANL	I&C
TSTEQ	Equipment, Test (only when	ASME	M&TE
ISILQ	no specific applies)	ASIVIL	IVICATE
EXC	Exciter	803	Elec
EXC	Exciter, generator	LANL	Elec
EXT	Extinguisher, fire	LANL	Fire Prot
EXS	Extinguishing system,	LANL	Fire Prot
LAG	gaseous or halon	LAINL	riie riot
EW	Eyewash	LANL	Mech
FPE	Fall protection equipment	LANL	C/S/Arch
FAN			Mech
FAN FB	Fan booster	803.1 LANL	
	Fan, booster		Mech
FC	Fan, circulating	LANL	Mech
FCU	Fan coil unit	803.1	Mech
FCD	Fan, condenser	LANL	Mech
FCT	Fan, cooling tower	LANL	Mech
FE	Fan, exhaust	LANL	Mech
FRA	Fan, return, air	LANL	Mech
FS	Fan, supply	LANL	Mech
FEN	Fence	LANL	C/S/Arch
FTB	Field termination box	LANL	Security
FLT	Filter (water etc.)	803.1	Mech
FAB	Filter, air, bag or box	LANL	Mech
FAL	Filter, air, charcoal	LANL	Mech
FAC	Filter, air, cleanable	LANL	Mech
FES	Filter, air, electrostatic	LANL	Mech
FAF	Filter, air, fire	LANL	Mech
FAH	Filter, air, HEPA	LANL	Mech
FAM	Filter, air, mat	LANL	Mech
FAP	Filter, air, pad	LANL	Mech
FAR	Filter, air, roughing	LANL	Mech
FO	Filter, oil	LANL	Mech
FRL	Filter, roll	LANL	Mech
AV	Final element, analyzer	5.1	I&C
BZ	Final element, burner	5.1	I&C
IZ	Final element, current		I&C
		5.1	
ZDV	Final element, deviation	5.1	I&C
PDV	Final element, differential	5.1	I&C
TDV	pressure	F 4	10.0
TDV	Final element, differential	5.1	I&C
E01/	temperature	F 4	100
FQV	Final element, flow, quantity	5.1	I&C
FV	Final element, flow, rate	5.1	I&C
FFV	Final element, flow, ratio	5.1	I&C
WDZ	Final element, force differential	5.1	I&C
HV@	Final element, hand	5.1mod	I&C
LV	Final element, level	5.1	I&C
	Final element, multivariable	5.1	I&C
UV	i inai olomoni, mainvanabio		
UV		5.1	I&C
UV ZV	Final element, position	5.1 5.1	
UV ZV JV	Final element, position Final element, power	5.1	I&C
UV ZV	Final element, position Final element, power Final element, presence or		
UV ZV JV YZ	Final element, position Final element, power Final element, presence or state	5.1 5.1	I&C I&C
UV ZV JV	Final element, position Final element, power Final element, presence or	5.1	I&C

ID	Description <sorted by<="" th=""><th>Ref*</th><th>Discipline*</th></sorted>	Ref*	Discipline*
SV@	Final element, speed	5.1mod	I&C
TV@	Final element, temperature	5.1mod 5.1mod	I&C
KV@	Final element, time	5.1mod 5.1mod	I&C
VZ	Final element, vibration	5.1	I&C
	analysis	0.1	
EZ	Final element, voltage	5.1	I&C
WZ	Final element, weight or force	5.1	I&C
FDC@	Fire Department Connection	170mod	Fire Prot
FRKLFT	Forklift	LANL	Mobile Eq
FH	Fume hood	LANL	Mech
FEH	Fume hood, exhaust	LANL	Mech
FGF	Furnace, gas fired	LANL	Mech
GE	Gate, electric	LANL	C/S/Arch
GH	Gate, hydraulic	LANL	C/S/Arch
GRBX	Gearbox	ASME	Mech
88	Generator, Auxiliary Motor or Motor	803.1	El Utility Dwgs
GDE	Generator, diesel engine	LANL	Elec
MG	Generator, motor	803.1	Elec
GNE	Generator, natural gas engine	LANL	Elec
PMG	Generator, permanent magnet		Elec
GNS	Generator, steam driven	LANL	Elec
65	Governor	803.1	El Utility Dwgs
GRB	Grinder, belt	LANL	Shop
GRP	Grinder, pedestal	LANL	Shop
GRS	Grinder, surface	LANL	Shop
HX	Heat exchanger	803.1	Mech
HXG	Heat exchanger, glycol	LANL	Mech
HXO	Heat exchanger, oil	LANL	Mech
HXR	Heat exchanger, refrigerant	LANL	Mech
HXS	Heat exchanger, steam	LANL	Mech
HXW	Heat exchanger, water	LANL	Mech
HUE	Heater unit, air, electric	LANL	Mech
HUG	Heater unit, air, gas	LANL	Mech
HUI	Heater unit, air, infrared	LANL	Mech
HUS	Heater unit, air, steam	LANL	Mech
HSE	Heater unit, air, steam-electric	LANL	Mech
HUW	Heater unit, air, water	LANL	Mech
HDA	Heater, deaerating	LANL	Mech
HDG	Heater, duct, gas	LANL	Mech
HFH	Heater, feed water, high- pressure	LANL	Mech
HFI	Heater, feed water, intermediate-pressure	LANL	Mech
HFL	Heater, feed water, low- pressure	LANL	Mech
HWE	Heater, water, electric	LANL	Mech
HWG	Heater, water, gas	LANL	Mech
HWS	Heater, water, steam	LANL	Mech
HV	Heating, ventilation unit	LANL	Mech
HVA	Heating, ventilation, air conditioning unit	LANL	Mech
HE	Hoist, electric	LANL	C/S/Arch
НМ	Hoist, manual	LANL	C/S/Arch
HP	Hoist, pneumatic	LANL	C/S/Arch
PSX	Hose	LANL	Mech
HAS	Humidifier, air, steam	LANL	Mech
HAW	Humidifier, air, water	LANL	Mech
HYD	Hydrant	803.1	Fire Prot
IMM	Ice maker machine	LANL	C/S/Arch
Al	Indicator, analyzer	5.1	I&C
BI	Indicator, burner	5.1	I&C
CI	Indicator, conductivity	5.1	I&C
<u> </u>			

ID	Description <sorted b<="" th=""><th>v Ref*</th><th>Discipline*</th></sorted>	v Ref*	Discipline*
 	Indicator, current	5.1	I&C
	Indicator, deviation	5.1	I&C
ZDI PDI	Indicator, deviation		I&C
TDI	Indicator, differential	5.1	I&C
וטו		5.1	I&C
_	temperature	F 4	10.0
FI FF'	Indicator, flow	5.1	I&C
FFI	Indicator, flow, ratio	5.1	I&C
FQI	Indicator, flow, totalized	5.1	I&C
WDI	Indicator, force differential	5.1	I&C
GI	Indicator, ground	5.1	I&C
LI	Indicator, level	5.1	I&C
MI	Indicator, moisture	5.1	I&C
UI	Indicator, multivariable	5.1	I&C
JI	Indicator, power	5.1	I&C
ΥI	Indicator, presence or state	5.1	I&C
PI	Indicator, pressure	5.1	I&C
QI	Indicator, quantity	5.1	I&C
RI	Indicator, radiation	5.1	I&C
XI	Indicator, special	5.1	I&C
SI	Indicator, speed	5.1	I&C
TI	Indicator, speed	5.1	I&C
KI	Indicator, time	5.1	I&C
KQI	Indicator, time, totalized	5.1	I&C
VI		5.1	I&C
	Indicator, vibration		
EI	Indicator, voltage	5.1	I&C
WI	Indicator, weight or force	5.1	I&C
ZI	Indicator, zone or position	5.1	I&C
LIL	Interlock, laser	LANL	I&C
LB	Isolator, level	803.1	Mech
JCP	Jet, condenser, priming	LANL	Mech
LADR	Ladder	803	C/S/Arch
LAT	Lathe	LANL	Shop
SLS	Lift station, sewage	LANL	C/S/Arch
LME	Lift, materials, electric	LANL	Mobile Eq
LMH	Lift, materials, hydraulic	LANL	Mobile Eq
LMM	Lift, materials, mobile	LANL	Mobile Eq
LMP	Lift, materials, pneumatic	LANL	Mobile Eq
LPE	Lift, personnel, electric	LANL	Mobile Eq
LPG	Lift, personnel, gasoline	LANL	Mobile Eq
LPH	Lift, personnel, hydraulic	LANL	Mobile Eq
LPP	Lift, personnel, pneumatic	LANL	Mobile Eq
LEP	Lift, platform, electric	LANL	Mobile Eq
LWI	Lift, wheelchair, inclined	LANL	C/S/Arch
LWV	Lift, wheelchair, vertical	LANL	C/S/Arch
LTE		LANL	Elec
	Light, emergency		
LTNT	Light, exit, non-tritium	LANL	Elec
LTET	Light, exit, tritium	LANL	Elec
LSS	Light, street	LANL	Elec
LUV	Light, ultraviolet (e.g., sterilization)	LANL	Mech
LF	Lighting fixtures	803.1	Elec
LN	Lighting, incandescent	LANL	Elec
LPT	Lightning protection	LANL	Elec
LET	Line, electric, transmission	LANL	Elec Utility
LDC	Load cell	803.1	M&TE
LDR	Loader, front	LANL	Mobile Eq
LMF	Lock, metal former	LANL	Shop
MACH	Machine	ASME	Mech
SMF	Main, force, sewage	LANL	C/S/Arch
MHE	Manhole, electric	LANL	C/S/Arch
MHS	Manhole, steam Manhole, waste water	LANL	C/S/Arch C/S/Arch
MWW		LANL	

ID	Description <sorted by<="" th=""><th>Ref*</th><th>Discipline*</th></sorted>	Ref*	Discipline*
MANF	Manifold	ASME	Mech
1	Master Element	803.1	El Utility Dwgs
75	Mechanism, Position	803.1	El Utility Dwgs
	Changing		
MTR	Meter	803.1	I&C
AMP	Meter, ammeter	LANL	M&TE
MGD	Meter, gas, district	LANL	Mech
MGR	Meter, gas, revenue	LANL	Mech
MHT	Meter, humidity or	LANL	I&C
14140	temperature	LANII	MOTE
MMO	Meter, megohm Meter, multimeter, digital	LANL LANL	M&TE
MMD	Meter, multimeter, digital	LANL	M&TE
MPH MW	Meter, water	LANL	M&TE I&C
MNC	Mill, numeric control	LANL	Shop
MM	Milling machine	LANL	Shop
MISC	Miscellaneous (must get ESM		All
IVIIOO	Ch 1 POC apprvl)	AOIVIL	
МС	Mixer, chemical	LANL	Mech
AM	Modifier, analyzer	5.1	I&C
CM@	Modifier, conductivity	5.1mod	I&C
IM	Modifier, current	5.1	I&C
PDM	Modifier, differential pressure	5.1	I&C
TDM	Modifier, differential	5.1	I&C
	temperature		
FM	Modifier, flow	5.1	I&C
FFM	Modifier, flow, ratio	5.1	I&C
FQM	Modifier, flow, totalizer	5.1	I&C
PIM	Modifier, indicating, pressure	5.1	I&C
LM	Modifier, level	5.1	I&C
MM@	Modifier, moisture	5.1mod	I&C
JM	Modifier, power	5.1	I&C
PM	Modifier, pressure	5.1	I&C
RM	Modifier, radiation	5.1	I&C
XM	Modifier, special	5.1	I&C
SM	Modifier, speed	5.1	I&C
TM VM@	Modifier, temperature	5.1	I&C
EM	Modifier, vibration Modifier, voltage	5.1mod 5.1	I&C I&C
	Modifier, weight or force	5.1 5.1	
WM ZM	Modifier, zone or position	5.1	I&C I&C
45	Monitor, Atmospheric	803.1	El Utility
45	Condition	003.1	Dwgs
CAM	Monitor, continuous air	LANL	I&C
39	Monitor, Mechanical,	803.1	El Utility
	Condition		Dwgs
МО	Motor	803.1	Elec
MCC	Motor control center	803.1	Elec
NAA	Notification appliance, audio	LANL	Fire Prot
NAAV	Notification appliance, audio	LANL	Fire Prot
	visual		
NAV	Notification appliance, visual	LANL	Fire Prot
84	Operating Mechanism	803.1	El Utility Dwgs
OPG	Orifice plate, gas	LANL	Mech
OVEN	Oven	LANL	Mech
CPL	Panel, control	LANL	I&C
EP	Panel, emergency power	LANL	Elec
LP	Panel, lighting	100	Elec
PP	Panel, power	100	Elec
PPDC	Panel, power, direct current	LANL	Elec
PSD	Phase shifting device	803.1	Elec
PE	Pole, electrical distribution	LANL	Elec
PDU	Power distribution unit	1100	Elec

ID	Description <sorted by<="" th=""><th>Ref*</th><th>Discipline*</th></sorted>	Ref*	Discipline*
JX	Power supply, electric	5.1	I&C
HPU	Power unit, hydraulic	LANL	Mech
DP	Press, drill	LANL	Shop
PH	Press, hydraulic	LANL	Shop
AE	Primary element, analyzer	5.1	I&C
BE	Primary element, burner	5.1	I&C
CE	Primary element, conductivity	5.1	I&C
ΙE	Primary element, current	5.1	I&C
ZDE	Primary element, deviation	5.1	I&C
PDE	Primary element, differential pressure	5.1	I&C
FE@	Primary element, flow	5.1mod	I&C
FQE	Primary element, flow, quantity	5.1	I&C
WDE	Primary element, force differential	5.1	I&C
LE	Primary element, level	5.1	I&C
ME	Primary element, moisture	5.1	I&C
PHE	Primary element, pH	5.1	I&C
JE	Primary element, power	5.1	I&C
PE@	Primary element, pressure	5.1mod	I&C
QE	Primary element, quantity	5.1	I&C
SESE	Primary element, seismic	5.1	I&C
XE	Primary element, special	5.1	I&C
SE	Primary element, speed	5.1	I&C
TE	Primary element, temperature	5.1	I&C
KE	Primary element, time	5.1	I&C
VE	Primary element, vibration	5.1	I&C
EE@	Primary element, voltage	5.1mod	I&C
WRE	Primary element, wear	5.1	I&C
WE	Primary element, weight or force	5.1	I&C
ZE	Primary element, zone or position	5.1	I&C
Р	Pump	803.1	Mech
PAC	Pump, acid or chemical	LANL	Mech
PBF	Pump, boiler feed	LANL	Mech
PCW	Pump, chilled or cooling water		Mech
PCR	Pump, circulating	LANL	Mech
PC	Pump, condensate	LANL	Mech
PCT	Pump, cooling tower	LANL	Mech
PDW	Pump, deionized water	LANL	Mech
PFP	Pump, fire protection	LANL	Fire Prot
PFO	Pump, fuel oil	LANL	Mech
PG	Pump, glycol	LANL	Mech
PHW	Pump, hot water	LANL	Mech
PDH	Pump, hot water, domestic (potable)	LANL	Mech
PHO	Pump, hydraulic	LANL	Mech
PO	Pump, oil	LANL	Mech
PPB	Pump, pressure, boosting	LANL	Mech
PSA	Pump, sampler air	LANL	Mech
PSW	Pump, sealant water	LANL	Mech
PSR	Pump, sewage, raw	LANL	Mech
PS	Pump, sump	LANL	Mech
PTW	Pump, tempered water	LANL	Mech
PV	Pump, vacuum	LANL	Mech
PWT	Pump, waste treatment	LANL	Mech
PWS	Pump, water spray	LANL	Mech
RDR	Reader	803.1	I&C
AR	Recorder, analyzer	5.1	I&C
BR	Recorder, burner	5.1	I&C
CR@	Recorder, conductivity	5.1mod	I&C

ID	Description <sorted by<="" th=""><th>Ref*</th><th>Discipline*</th></sorted>	Ref*	Discipline*
IR	Recorder, current	5.1	I&C
ZDR	Recorder, deviation	5.1	I&C
PDR	Recorder, deviation		I&C
TDR	Recorder, differential	5.1	I&C
IDK	temperature	5.1	lac
FR	Recorder, flow	5.1	I&C
FFR	Recorder, flow, ratio	5.1	I&C
		-	
FQR	Recorder, flow, totalized	5.1	I&C
WDR	Recorder, force differential	5.1	I&C
AIR	Recorder, indicating, analyzer		I&C
LR	Recorder, level	5.1	I&C
MR	Recorder, moisture	5.1	I&C
UR	Recorder, multivariable	5.1	I&C
ZR	Recorder, position	5.1	I&C
JR	Recorder, power	5.1	I&C
JQR	Recorder, power, totalizing	5.1	I&C
	(incl watt-hr mtr)		
YR	Recorder, presence or state	5.1	I&C
PR@	Recorder, pressure	5.1mod	I&C
QR	Recorder, quantity	5.1	I&C
RR	Recorder, radiation	5.1	I&C
SESR	Recorder, seismic	5.1	I&C
XR	Recorder, special	5.1	I&C
SR	Recorder, speed	5.1	I&C
TR	Recorder, temperature	5.1	I&C
KR	Recorder, time	5.1	I&C
VR	Recorder, vibration	5.1	I&C
ER	Recorder, voltage	5.1	I&C
WR	Recorder, weight or force	5.1	I&C
RECT	Rectifier	803.1	Elec
RUA	Refrigeration unit, air	LANL	Mech
90		803.1	El Utility Dwgs
REG	Regulating Device Regulator, gas bottle	LANL	Mech
DGRS NGRS	Regulator, gas, district	LANL	Mech
	Regulator, natural gas	LANL	Mech
RPG	Regulator, pressure, gas	LANL	Mech
RPW	Regulator, pressure, water	LANL	Mech
RV	Regulator, voltage	LANL	Elec
67	Relay, AC Directional	803.1	El Utility Dwgs
70	Overcurrent	000.4	ELLICE D.
79	Relay, AC Reclosing	803.1	El Utility Dwgs
51	Relay, AC Time Overcurrent	803.1	El Utility Dwgs
74	Relay, Alarm	803.1	El Utility Dwgs
AY	Relay, analyzer	5.1	I&C
30	Relay, Annunciator	803.1	El Utility Dwgs
83	Relay, Automatic Selective	803.1	El Utility Dwgs
	Control or Transfer		
68	Relay, Blocking	803.1	El Utility Dwgs
BY	Relay, burner	5.1	I&C
85	Relay, Carrier/Pilot-Wire	803.1	El Utility Dwgs
	Receiver		
3	Relay, Checking or	803.1	El Utility Dwgs
	Interlocking		
ΙΥ	Relay, current	5.1	I&C
61	Relay, Current Balance	803.1	El Utility Dwgs
76	Relay, DC Overcurrent	803.1	El Utility Dwgs
82	Relay, DC Reclosing	803.1	El Utility Dwgs
ZDY	Relay, deviation	5.1	I&C
PDY	Relay, differential pressure	5.1	I&C
87	Relay, Differential Protective	803.1	El Utility Dwgs
TDY	Relay, differential temperature	5.1	I&C
32	Relay, Directional Power	803.1	El Utility Dwgs
21	Relay, Distance	803.1	El Utility Dwgs
<u>- 1</u>	irrolay, Distance	000.1	L. Cuity Dwgs

ı.		D (#	.
ID	Description <sorted by<="" th=""><th></th><th>Discipline*</th></sorted>		Discipline*
53	Relay, Exciter or DC	803.1	El Utility Dwgs
40	Generator Relay Field	002.4	ELLIHIBA Duras
40	Relay, Field	803.1	El Utility Dwgs
56 FQY	Relay, Field Application Relay, flow, quantity	803.1 5.1	El Utility Dwgs I&C
FY	Relay, flow, rate	5.1	I&C
WDY	Relay, force differential	5.1	I&C
81	Relay, Frequency	803.1	El Utility Dwgs
64	Relay, Ground Detector (Not	803.1	El Utility Dwgs
	CT Secondary)		
48	Relay, Incomplete Sequence	803.1	El Utility Dwgs
50	Relay, Instantaneous	803.1	El Utility Dwgs
	Overcurrent (OC)		
LY	Relay, level	5.1	I&C
86	Relay, Locking-Out	803.1	El Utility Dwgs
49	Relay, Machine or	803.1	El Utility Dwgs
111/	Transformer Thermal	F 4	10.0
UY	Relay, multivariable	5.1	I&C El Utility Dwgs
78	Relay, Out-of-Step Protective Phase-Angle Measuring	803.1	El Utility Dwgs
59	Relay, Overvoltage	803.1	El Utility Dwgs
95	Relay, Phase Discordance	803.1	El Utility Dwgs
	Handling Unit	000.1	Li Guinty D'iligo
46	Relay, Phase-Balance Current	803.1	El Utility Dwgs
	or Reverse-Phase		
47	Relay, Phase-Sequence	803.1	El Utility Dwgs
	Voltage		
ZY	Relay, position	5.1	I&C
JY	Relay, power	5.1	I&C
55	Relay, Power Factor	803.1	El Utility Dwgs
YY	Relay, presence or state	5.1	I&C
PY	Relay, pressure	5.1	I&C
PR	Relay, protective	LANL	Elec
QY RY	Relay, quantity Relay, radiation	5.1 5.1	I&C I&C
58	Relay, Rectifier Failure	803.1	El Utility Dwgs
SY	Relay, speed	5.1	I&C
24	Relay, Static Breaker Failure	803.1	El Utility Dwgs
TY	Relay, temperature	5.1	I&C
KY	Relay, time	5.1	I&C
2	Relay, Time-Delay Starting or	803.1	El Utility Dwgs
	Closing		, ,
62	Relay, Time-Delay Starting or	803.1	El Utility Dwgs
	Closing		
94	Relay, Tripping	803.1	El Utility Dwgs
37	Relay, Undercurrent or	803.1	El Utility Dwgs
27	Underpower Polov Undervoltage	902.1	ELLItility Dwgo
27 44	Relay, Undervoltage Relay, Unit Sequence Starting	803.1 803.1	El Utility Dwgs
VY	Relay, vibration analysis	5.1	El Utility Dwgs I&C
EY	Relay, voltage	5.1	I&C
92	Relay, Voltage and Power	803.1	El Utility Dwgs
	Directional	000.1	Li Guilly Dingo
91	Relay, Voltage Directional	803.1	El Utility Dwgs
60	Relay, Voltage or Current	803.1	El Utility Dwgs
	Balance		
WY	Relay, weight or force	5.1	I&C
RTU	Remote terminal unit	LANL	I&C
ROU	Reverse osmosis unit	803.1	Mech
70	Rheostat	803.1	El Utility Dwgs
RGNG	Rigging (slings, shackles, etc)	ASME	C/S/Arch
RPP	Road & park lots, paved	LANL	C/S/Arch
RUP	Road & park lots, unpaved	LANL	C/S/Arch

ID	Description <sorted by<="" th=""><th>Rof*</th><th>Discipline*</th></sorted>	Rof*	Discipline*
RBE	Road-block, electric	LANL	C/S/Arch
RBH	Road-block, hydraulic	LANL	C/S/Arch
RMF	Roller, metal forming	LANL	Shop
RS	Roof section	LANL	C/S/Arch
RPD	Rupture disc	803.1	Mech
PSE	Safety device, pressure	5.1	Mech
TSE	Safety device, temperature	5.1	Mech
SBL		LANL	Shop
SD	Sand blaster	LANL	Shop
	Sander		
SAW	Saw	LANL	Shop
SB	Screen, bar, mechanical	LANL	Mech
TQS	Screwdriver, torque	LANL	M&TE
SF	Scrubber, fume	LANL	Mech
SCBA	Self Contained Breathing	LANL	Mech
CED	Apparatus	000.4	Maak
SEP	Separator	803.1	Mech
SO	Separator, oil	LANL	Mech
SG	Shaker, graphite	LANL	Shop
SMC	Shear, metal cutting	LANL	Shop
SHD	Shower, decontamination	LANL	Mech
SHS	Shower, safety	LANL	Mech
BG	Sight glass, burner	5.1	I&C
FG	Sight glass, flow	5.1	I&C
LG	Sight glass, level	5.1	I&C
SNK	Sink	803.1	Mech
S	Siren	LANL	I&C
SLW	Slinger, water spray	LANL	Mech
SRNK	Sprinkler (head)	803.1	Fire Prot
SPF	Sprinkler, anti-freeze	LANL	Fire Prot
SPD	Sprinkler, dry pipe	LANL	Fire Prot
SPA	Sprinkler, preaction	LANL	Fire Prot
SPW	Sprinkler, wet pipe	LANL	Fire Prot
ES	Stack, exhaust	LANL	C/S/Arch
SPH	Standpipe	LANL	Fire Prot
MSTR	Starter, motor	803.1	Elec
SCR	Strainer	LANL	Mech
SUB	Substation (HV)	LANL	Elec
SUS	Substation, unit, secondary	LANL	Elec
AS	Switch, analyzer	5.1	I&C
ASH	Switch, analyzer, high	5.1	I&C
ASHL	Switch, analyzer, high or low	5.1	I&C
ASL	Switch, analyzer, low	5.1	I&C
BSH	Switch, burner, high	5.1	I&C
BSHL	Switch, burner, high low	5.1	I&C
BSL	Switch, burner, low	5.1	I&C
CS@	Switch, conductivity	5.1mod	I&C
IS	Switch, current	5.1	I&C
ISH	Switch, current, high	5.1	I&C
ISHL	Switch, current, high or low	5.1	I&C
ISL	Switch, current, low	5.1	I&C
ZDSH	Switch, deviation, high	5.1	I&C
ZDSL	Switch, deviation, low	5.1	I&C
PDS	Switch, differential pressure	5.1	I&C
PDSH	Switch, differential pressure, high	5.1	I&C
PDSL	Switch, differential pressure, low	5.1	I&C
TDS	Switch, differential	5.1	I&C
TDSH	temperature Switch, differential	5.1	I&C
	temperature, high		
TDSL	Switch, differential temperature, low	5.1	I&C

ID	Description & Serted by	Dof*	Discipline*
80	Description <sorted by="" flow<="" switch,="" th=""><th>803.1</th><th>El Utility Dwgs</th></sorted>	803.1	El Utility Dwgs
FS@	Switch, flow	5.1mod	
FSH	Switch, flow, high	5.111100 5.1	I&C I&C
FSHL	Switch, flow, high or low	5.1	I&C
FSL	Switch, flow, low	5.1 5.1	I&C
	Switch, flow, quantity, high		I&C
FQSH		5.1	
FQSL FFS	Switch, flow, quantity, low	5.1	I&C
FFSH	Switch, flow, ratio	5.1 5.1	I&C I&C
	Switch, flow, ratio, high		
FFSL	Switch, flow, ratio, low	5.1	I&C
FQS	Switch, flow, totalized	5.1	I&C
WDSH	Switch, force differential, high	5.1	I&C
WDSL	Switch, force differential, low	5.1	I&C
HS	Switch, hand	5.1	I&C
AIS	Switch, indicating, analyzer	5.1	I&C
CIS	Switch, indicating, conductivity		I&C
IIS	Switch, indicating, current	5.1	I&C
PDIS	Switch, indicating, differential	5.1	I&C
F10	pressure	- 4	10.0
FIS	Switch, indicating, flow	5.1	I&C
HIS	Switch, indicating, hand	5.1	I&C
LIS	Switch, indicating, level	5.1	I&C
MIS	Switch, indicating, moisture	5.1	I&C
PIS	Switch, indicating, pressure	5.1	I&C
RIS	Switch, indicating, radiation	5.1	I&C
XIS	Switch, indicating, special	5.1	I&C
SIS	Switch, indicating, speed	5.1	I&C
TIS	Switch, indicating,	5.1	I&C
	temperature		
KIS	Switch, indicating, time	5.1	I&C
FQIS	Switch, indicating, totalizing,	5.1	I&C
	flow		10.0
VIS	Switch, indicating, vibration	5.1	I&C
EIS	Switch, indicating, voltage	5.1	I&C
WIS	Switch, indicating, weight or	5.1	I&C
710	force	F 4	10.0
ZIS	Switch, indicating, zone or	5.1	I&C
71	position Switch, Level	002.4	El Hility Duran
		803.1	El Utility Dwgs
LS	Switch, level	5.1	I&C I&C
LSH	Switch, level, high	5.1	
LSHL	Switch, level, high or low	5.1	I&C
LSL	Switch, level, low	5.1	I&C
ZS	Switch, limit, zone or position	5.1	I&C
89	Switch, Line	803.1	El Utility Dwgs
MS@	Switch, moisture	5.1mod	I&C
SPM	Switch, pad mounted	LANL	Elec
33	Switch, Position	803.1	El Utility Dwgs
ZSH	Switch, position, high	5.1	I&C
ZSHL	Switch, position, high or low	5.1	I&C
ZSL	Switch, position, low	5.1	I&C
JS	Switch, power	5.1	I&C
JSH	Switch, power, high	5.1	I&C
JSHL	Switch, power, high or low	5.1	I&C
JSL	Switch, power, low	5.1	I&C
YSH	Switch, presence or state,	5.1	I&C
I	high		100
V(C)	Number processes or otate law	5.1	I&C
YSL	Switch, presence or state, low		
63	Switch, Pressure	803.1	El Utility Dwgs
63 PS@	Switch, Pressure Switch, pressure	803.1 5.1mod	I&C
63 PS@ PSH	Switch, Pressure Switch, pressure Switch, pressure, high	803.1 5.1mod 5.1	I&C I&C
63 PS@	Switch, Pressure Switch, pressure	803.1 5.1mod	I&C

ID	Description <sorted by<="" th=""><th>Ref*</th><th>Discipline*</th></sorted>	Ref*	Discipline*
QSH	Switch, quantity, high	5.1	I&C
QSHL	Switch, quantity, high or low	5.1	I&C
QSL	Switch, quantity, high or low	5.1	I&C
RSH	Switch, radiation, high	5.1	I&C
RSHL	Switch, radiation, high or low	5.1	I&C
RSL	Switch, radiation, low	5.1	I&C
TRS@	Switch, recording,	5.1mod	I&C
IK3@	temperature	5. IIIIou	IAC
17	Switch, Shunting or Discharge	803.1	El Utility Dwgs
SS	Switch, speed	5.1	I&C
SSH	Switch, speed, high	5.1	I&C
SSHL	Switch, speed, high or low	5.1	I&C
SSL	Switch, speed, low	5.1	I&C
TS@	Switch, temperature	5.1mod	I&C
TSH	Switch, temperature, high	5.111100	I&C
TSHL	Switch, temperature, high or	5.1	I&C
ISIIL	low	5.1	lac
TSL	Switch, temperature, low	5.1	I&C
KSH	Switch, time, high	5.1	I&C
KSHL	Switch, time, high or low	5.1	I&C
KSL	Switch, time, low	5.1	I&C
KS	Switch, timer	5.1	I&C
ATS	Switch, transfer, automatic	1100	Elec
MTS	Switch, transfer, manual	100	Elec
ST	Switch, transformer	LANL	Elec
AITS	Switch, transmitting,	5.1	I&C
	indicating, analyzer		
10	Switch, Unit Sequence	803.1	El Utility Dwgs
SV	Switch, vacuum	LANL	Elec
VS	Switch, vibration	5.1	I&C
VSH	Switch, vibration, high	5.1	I&C
VSHL	Switch, vibration, high or low	5.1	I&C
VSL	Switch, vibration, low	5.1	I&C
ESH	Switch, voltage, high	5.1	I&C
ESHL	Switch, voltage, high or low	5.1	I&C
ESL	Switch, voltage, low	5.1	I&C
WSH	Switch, weight or force, high	5.1	I&C
WSHL	Switch, weight or force, high	5.1	I&C
VVOITE	or low	0.1	140
WSL	Switch, weight or force, low	5.1	I&C
SWBD	Switchboard (NEMA)	100	Elec
SWGR	Switchgear (ANSI)	803.1	Elec
25	Synchronizing or	803.1	El Utility Dwgs
	Synchronism-Check Drive		
SYN SYS	Synchroscope	803.1	I&C
SYS	System (the entire OPsystem	ASME	All
TBL	or subsystem) Table	LANL	Mech
TK	Tank	803.1	Mech
TAC	Tank, acid or chemical	LANL	Mech
TCI	Tank, chemical injection	LANL	Mech
TCA	Tank, compressed air	LANL	Mech
TCF	Tank, compressed all	LANL	Mech
TCS	Tank, condensate, steam	LANL	Mech
TCW	Tank, condensate, water	LANL	Mech
TX	Tank, expansion	LANL	Mech
TG		LANL	Mech
THP	Tank, glycol Tank, hydraulic pressure	LANL	Mech
TO			
TPWS	Tank, oil Tank, potable water, storage	LANL LANL	Mech Mech
TRC	Tank, refrigerant	LANL	Mech
TRS	Tank, retention or storage	LANL	Mech
TSA	Tank, separator, air	LANL	Mech

ID	Description <sorted by<="" th=""><th>Pof*</th><th>Discipline*</th></sorted>	Pof*	Discipline*
TV			
	Tank, vacuum	LANL	Mech
TWT	Tank, waste treatment	LANL	Mech
TWC	Tank, water, chilled or cooling		Mech
TWD	Tank, water, deionized or	LANL	Mech
	demineralized		
TWH	Tank, water, hot	LANL	Mech
TWS	Tank, water, sealant	LANL	Mech
TEL	Telephone	803.1	Other
TELE	Television	803.1	Other
AP	Test point, analyzer	5.1	I&C
BP	Test point, burner	5.1	I&C
FP	Test point, flow	5.1	I&C
PP@	Test point, pressure	5.1mod	I&C
TP	Test point, temperature	5.1	I&C
CBT	Test set, relay, overload, and or circuit breaker	LANL	M&TE
GX	Tester, balance	LANL	M&TE
GXT	Tester, gas	LANL	M&TE
TQT	Tester, torque	LANL	M&TE
TH	Thermostat	803.1	I&C
TOILET	Toilet	LANL	Shop
TOOL		LANL	Shop
IQ	Totalizer, current	5.1	I&C
FQ	Totalizer, flow	5.1	I&C
JWHQ	Totalizer, power, watt-hour	5.1	I&C
KQ	Totalizer, time	5.1	I&C
EQ	Totalizer, voltage	5.1	I&C
TC	Tower, cooling	LANL	Mech
TLA		LANL	Elec Utility
TMP	Tower, electric, PNM MP	LANL	Elec Utility
TNL	Tower, electric, PNM NL	LANL	Elec Utility
TTE	, ,	LANL	Elec Utility
TRCTR	Tractor	LANL	Shop
TRLR	Trailer	ASME	Shop
XFMR	Transformer (LV)	803.1	Elec
XFRD	Transformer, distribution (MV)		Elec
XFRP	Transformer, power (HV)	LANL	Elec
XFRR	Transformer, rectifier	LANL	Elec
AT	Transmitter, analyzer	5.1	I&C
BT	Transmitter, burner	5.1	I&C
СТ	Transmitter, conductivity	5.1	I&C
IT	Transmitter, current	5.1	I&C
ZDT	Transmitter, deviation	5.1	I&C
PDT	Transmitter, differential pressure	5.1	I&C
TDT	Transmitter, differential temperature	5.1	I&C
FT	Transmitter, flow	5.1	I&C
FFT	Transmitter, flow, ratio	5.1	I&C
FQT	Transmitter, flow, totalizer	5.1	I&C
WDT	Transmitter, force differential	5.1	I&C
AIT	Transmitter, indicating,	5.1	I&C
	analyzer		
			1100
BIT	Transmitter, indicating, burner	5.1	I&C
		5.1 5.1	I&C
BIT CIT	Transmitter, indicating, burner Transmitter, indicating, conductivity	5.1	I&C
BIT CIT IIT	Transmitter, indicating, burner Transmitter, indicating, conductivity Transmitter, indicating, current	5.1 5.1	I&C I&C
BIT CIT	Transmitter, indicating, burner Transmitter, indicating, conductivity Transmitter, indicating, current Transmitter, indicating,	5.1	I&C
BIT CIT IIT	Transmitter, indicating, burner Transmitter, indicating, conductivity Transmitter, indicating, current Transmitter, indicating, deviation Transmitter, indicating,	5.1 5.1	I&C I&C
BIT CIT IIT ZDIT	Transmitter, indicating, burner Transmitter, indicating, conductivity Transmitter, indicating, current Transmitter, indicating, deviation	5.1 5.1 5.1	I&C I&C I&C

ID	Description <sorted by<="" th=""><th>Ref*</th><th>Discipline*</th></sorted>	Ref*	Discipline*
FIT	Transmitter, indicating, flow	5.1	I&C
FQIT	Transmitter, indicating, flow, quantity	5.1	I&C
WDIT	Transmitter, indicating, force differential	5.1	I&C
LIT	Transmitter, indicating, level	5.1	I&C
MIT	Transmitter, indicating, moisture	5.1	I&C
ZIT	Transmitter, indicating, position	5.1	I&C
JIT	Transmitter, indicating, power	5.1	I&C
PIT	Transmitter, indicating, pressure	5.1	I&C
QIT	Transmitter, indicating, quantity	5.1	I&C
RIT	Transmitter, indicating, radiation	5.1	I&C
XIT	Transmitter, indicating, special	5.1	I&C
SIT	Transmitter, indicating, speed	5.1	I&C
TIT	Transmitter, indicating, temperature	5.1	I&C
KIT	Transmitter, indicating, time	5.1	I&C
VIT	Transmitter, indicating, vibration	5.1	I&C
EIT	Transmitter, indicating, voltage	5.1	I&C
WIT	Transmitter, indicating, weight or force	5.1	I&C
LT	Transmitter, level	5.1	I&C
MT	Transmitter, moisture	5.1	I&C
JT	Transmitter, power	5.1	I&C
JWHT	Transmitter, power, watt-hour	5.1	I&C
ΥT	Transmitter, presence or state	5.1	I&C
PT	Transmitter, pressure	5.1	I&C
77	Transmitter, Pulse	803.1	El Utility Dwgs
QT	Transmitter, quantity	5.1	I&C
RT	Transmitter, radiation	5.1	I&C
ART	Transmitter, recording, analyzer	5.1	I&C
BRT	Transmitter, recording, burner		I&C
IRT	Transmitter, recording, current		I&C
ZDRT	Transmitter, recording, deviation	5.1	I&C
PDRT	Transmitter, recording, differential pressure	5.1	I&C
TDRT	Transmitter, recording, differential temperature	5.1	I&C
FRT	Transmitter, recording, flow	5.1	I&C
WDRT	Transmitter, recording, force differential	5.1	I&C
LRT	Transmitter, recording, level	5.1	I&C
ZRT	Transmitter, recording, position	5.1	I&C
JRT	Transmitter, recording, power	5.1	I&C
PRT	Transmitter, recording, pressure	5.1	I&C
QRT	Transmitter, recording, quantity	5.1	I&C
RRT	Transmitter, recording, radiation	5.1	I&C
SRT	Transmitter, recording, speed	5.1	I&C
TRT	Transmitter, recording, temperature	5.1	I&C
KRT	Transmitter, recording, time	5.1	I&C

ID	Description <sorted by<="" th=""><th>Ref*</th><th>Discipline*</th></sorted>	Ref*	Discipline*
VRT	Transmitter, recording,	5.1	I&C
	vibration analysis		
ERT	Transmitter, recording,	5.1	I&C
	voltage		
WRT	Transmitter, recording, weight	5.1	I&C
	or force		
XT	Transmitter, special	5.1	I&C
ST@	Transmitter, speed	5.1mod	I&C
TT	Transmitter, temperature	5.1	I&C
KT	Transmitter, time	5.1	I&C
KQT	Transmitter, time, totalized	5.1	I&C
VT	Transmitter, vibration	5.1	I&C
ET	Transmitter, voltage	5.1	I&C
WT	Transmitter, weight or force	5.1	I&C
ZT	Transmitter, zone or position	5.1	I&C
TRP	Trap	803.1	Mech
GT	Trap, grease	LANL	Mech
TS	Trap, steam	LANL	Mech
TRUCK	Truck	LANL	Shop
CRT	Tube, cathode ray	803.1	M&TE
TSD	Turbine, steam driven	LANL	Mech
TTT	Turntable	LANL	C/S/Arch
UPS	Uninterruptible power supply	1100	Elec
XRAY	Unit, security, x-ray	803.1	I&C
V	Valve	803.1	Mech
AOBV	Valve, ball, air-operated	LANL	Mech
BVT	Valve, ball, trunion	LANL	Mech
VB	Valve, block	LANL	Mech
VBH	Valve, block, hydrant	LANL	Mech
VBW	Valve, block, water	LANL	Mech
VBG	Valve, burner, gas	LANL	Mech
VBO	Valve, burner, oil	LANL	Mech
VC	Valve, check	LANL	Mech
ZDCV	Valve, control, deviation	5.1	Mech
PDCV	Valve, control, differential pressure	5.1	Mech
TDCV	Valve, control, differential temperature	5.1	Mech
FCV	Valve, control, flow	5.1	Mech
WCV	Valve, control, force	5.1	Mech
WDCV	Valve, control, force differential	5.1	Mech
FICV	Valve, control, indicating, flow	5.1	Mech
LCV	Valve, control, level	5.1	Mech
PCV	Valve, control, pressure	5.1	Mech
SCV	Valve, control, speed	5.1	Mech
TCV	Valve, control, temperature	5.1	Mech
KCV	Valve, control, timed	5.1	Mech
ZCV	Valve, control, zone or position	5.1	Mech
20	Valve, Electrically Operated	803.1	El Utility Dwgs
VABG	Valve, gate, aeration basin	LANL	Mech
VEQG	Valve, gate, equalization basin	LANL	Mech
KV	Valve, key, natural gas	LANL	Mech
MS	Valve, main steam	LANL	Mech
VM	Valve, main steam Valve, motor-operated	LANL	Mech
OSY	Valve, Motor-operated Valve, Outside Screw & Yoke	ASME	Fire Prot
PIV	Valve, outside screw & roke Valve, post indicating	LANL	Fire Prot
PIVA	Valve, post indicating,	LANL	Fire Prot
	annunciated		
VPR	Valve, pressure reducing	LANL	Mech
RVS	Valve, regulator, steam	LANL	Mech

Rev. 6, 2/1/06

ID	Description <sorted b<="" th=""><th>y Ref*</th><th>Discipline*</th></sorted>	y Ref*	Discipline*
PRV	Valve, relief, pressure (liquid service)	LANL	Mech
PSV	Valve, safety, pressure (steam-air-gas service)	5.1	Mech
SOV	Valve, solenoid	LANL	Mech
VAV	Variable Air Volume box	LANL	Mech
VP	Vessel, pressure	LANL	Mech
WA	Washer, air	LANL	Mech
DWS	Water softener	LANL	Mech
DNZ	Water unit, deionized	LANL	Mech
WGS	Weir gate, sludge	LANL	C/S/Arch
EWM	Welder, electric	LANL	Shop
AW	Well, analyzer	5.1	I&C
BW	Well, burner	5.1	I&C
LW	Well, level	5.1	I&C
RW	Well, radiation	5.1	I&C
TW	Well, thermal (thermowell)	5.1	I&C
WW	Wig-wag	LANL	C/S/Arch
TQW	Wrench, torque	LANL	M&TE

M&TE = Measuring & Test Equip

* References (sources):

ASME Y14.38-1999
ASPE – Am Soc Plumbing Engrs
IEEE Std 803.1-1992
IEEE Std 1015-1997
IEEE Std 1100-1999
ISA 5.1-1992 (modified with @ suffix when noted)
LANL historical
NECA 100-1999
NFPA 170-2006

The "Discipline" indicator represents the engineering discipline most commonly associated with the ID. This is included to aid ID selection, particularly in Attachment 2 which is sorted by discipline first; however, this discipline categorization does not preclude using the acronym for disciplines other than that indicated.